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CITY DOCUMENTS

OF THE

CITY OF LOWELL

MASSACHUSETTS

FOR THE

YEAR 1920-1921



EXTRACT FROM THE ORDINANCES OF LOWELL

CHAPTER VIII—CITY DOCUMENTS

Section 5. All City Documents (except the Rules and Regulations for the Government of the Police and Fire Departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

Section 6. All City Documents shall be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be placed in the City Library, and one copy in the library of the Middlesex Mechanics' Association, one copy shall be sent to each City of the Commonwealth, to the library of the Harvard College, the Public Library of Boston, the State Library, the Smithsonian Institute at Washington, and the Old Residents' Historical Association of Lowell.

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- 3. Ninth Annual Report of the Commissioner of Water Works, and the Reports of the Superintendent of Water Works and the City Engineer, for the year ending December 31, 1920.
- 4. Reports of the Births, Marriages and Deaths, 1920.
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Ninety-Fifth Annual Report

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF LOWELL

AND THE

Fifty-Seventh Annual Report

OF THE

Superintendent of Public Schools

1920



SULLIVAN BROS., PRINTERS 238 CENTRAL STREET

CITY OF LOWELL

Office of the School Commttee.

Lowell, Mass., Aug. 30, 1921.

At a meeting of the School Committee, held on this date, it was voted to adopt the report of the Superintendent of Schools for 1920 as the report of the School Committee for that year and to authorize the printing of the report.

In accordance with this vote the report is herewith submitted.

HUGH I. MOLLOY,

Secretary.

ORGANIZATION

OF THE

School Committee 1920

THOMAS B. DELANEY, Chairman HUGH J. MOLLOY, Secretary

m n	
Term Exp	res
*WILLIAM L. CROWLEY192	0
Res. 25 Sarah Ave. Tel. 3125-W	
Bus. 321 Hildreth Bldg.	
THOMAS B. DELANEY192	1
Res. 92 West St. Tel. 4942	
JULIAN B. KEYES	20
Res. 65 Fairmount St. Tel. 3578	
Bus. 204 Merrimack St.	
JAMES E. MARKHAM	21
Res. 12 Burns St. Tel. 5352-M	
Bus. 53 Central St.	
GEN. GARDNER W. PEARSON	20
Res. 59 Clitheroe St. Tel. 2479	
Bus. 416 Hildreth Bldg.	
**JAMES H. ROONEY, D. M. D	20
Res. 238 Pine St. Tel. 4033-M	
Bus. 6 Strand Bldg.	
Died January 29, 1920.	
**Elected to fill unexpired term of Wm. L. Crowley.	
REGULAR MEETINGS OF THE SCHOOL COMMITTEE	
January 27 May 25 September 28	
January 27 September 28 February 24 June 29 October 26 March 30 July 27 November 30	
March 30 July 27 November 30 April 27 August 31 December 28	

ADMINIST RATION

Superintendent of Public Schools HUGH J. MOLLOY Office in City Hall

Office Tel. 2728

Home Tel. 3121

Office Hours—One hour after the forenoon session of the schools; at other times, including Saturdays, by appointment

Clerks

FANNIE A. THOMPSON
Home Tel. 1066
KATHARINE L. CARMICHAEL

Business Agent

HENRY L. WILLIAMS

Office Tel. 2727

Home Tel. 2714

Clerk in Business Agent's Office

LEDA C. LAMONTAGNE

Office in School Supply Room, City Hall

Stock-keeper

FREDERICK JOHNSTON
Office hours for Supply Room
8 a. m. to 5 p. m.

Supervisor of Janitors

WILLIAM F. THORNTON

Oce Tel. 3960

Home Tel. 3423

Attendance Officers

William F. Thornton, Camille Roussin, John J. Walker, Mary H. Downey

Clerk in Attendance Office STELLA G. MOLONEY

Office-Third Floor of City Hall

Office Hours—9 to 4 o'clock daily, except Saturday; Saturday 9 to 12.30 o'clock.

ORGANIZATION

OF THE

School Committee

1921

THOMAS B. DELANEY, Chairman

HUGH J. MOLLOY, Secretary

MEMBERS

			Term I	Expires
ALBERT BERGERON				1922
Res. 35 Mt. Verno	n St.		Tel. 3511-R	
Bus. 229 Hildreth	Bldg.			
THOMAS B. DELANE	Υ			1921
Res. 92 West St.			Tel. 4942	
EDWARD J. DONNEI	LY		. 	1922
Res. 14 Ames St.			Tel. 2359-W	
JAMES E. MARKHAM	[.		1921	
Res. 12 Burns St.			Tel. 5352-M	
Bus. 53 Central St.				
JAMES C. WARNER .				1922
Res. 71 Pine St.			Tel. 2747-J	
REGULAR MEETING	GS OF THE	SCHOOL	COMMITTEE	
January 25	May 31		September	27
February 22	June 28		October 25	
March 29	July 26		November	29
April 26	August 30		December	27

ADMINISTRATION

Superintendnt of Public Schools

HUGH J. MOLLOY Office in City Hall

Office Tel. 2728

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REPORT OF THE SUPERINTENDENT OF SCHOOLS

Office of the Superintendent of Schools, Lowell, Mass., August 30, 1921

To the School Committee of Lowell:

The following report, for the year 1920, is respectfully submitted.

The following report, for the year 1920, is respectfully s	ubmitted.
SUMMARY OF STATISTICS	¢122 002 027 00
Valuation of City	2,656,390.00
Rate of Taxation, \$27.20 per \$1,000	2,030,370.00
Expenditures for Day Schools	907,170.58
Expenditures for Day Schools and Americanization	38,516.59
Day school expenditures to total valuation	.716 per cent.
Day and Evening School expenditures to total valuation	.747 per cent.
Population by census of 1915	107,978
Number of polls	30,563
Number of Public Day Schools	61
One high, thirteen grammar, thirty primary, two mixed, fourteen	
kindergartens, one continuation.	10
Number of school buildings	- 49
(Not including seven one-room portable buildings)	
Occupied by public schools, 47; occupied by vocational schools, 2 Elected teachers, Dec. 31; on leave, 3; in service, 363, total, 366	
Permanent substitutes	24
Subdivisons of Elected Teachers in service:	
High, 18 men, 40 women; Grammar, 9 men, 151 women;	
Primary, 91 women: Mixed, 5 women: Kindergarten, 21	
women; Continuation, 8 men, 6 women; Drawing, 2	
women; Continuation, 8 men, 6 women; Drawing, 2 women; Music, 1 man, 2 women; Sewing, 4 women; Man-	
ual Training, 2 men; Supervisor of Primary Grades, I	
woman; Physical Director in Elementary Schools, 1 man;	
Assistant Physical Director in Elementary Schools, 1	
woman.	
Teachers in Evening Schools, counting principals, term of	61
Pupils enrolled in Evening Schools, term of 1919-1920	2,173
High, 1,460; Elementary, 713.	2,173
Whole number of pupils enrolled in Day Schools, 1919-1920	13.358
High, 1,643; Grammar, 6,354; Primary, 4,543; Mixed, 198;	20,100
Kindergarten, 620.	
Average number belonging to Day Schools, 1919-1920	11,703
High, 1,488; Grammar, 5,721; Primary, 3,949; Mixed, 166;	
Kindergarten, 379.	10 700
Average attendance, 1919-20.	10,728
High, 1,424; Grammar, 5,319; Primary, 3,543; Mixed, 145;	
Kindergarten, 297. Average per cent. of attendance, 1919-20:	
High, 95.6; Grammar, 92.9; Primary, 89.7; Mixed, 87.3	
Kindergarten, 81.2.	
Average membership for year ending December, 1920	11,776
High, 1,548; Grammar, 5,753; Primary, 3,900; Mixed, 163;	
Kindergarten, 412.	
Number of school rooms in actual use in June, 1920.	326
High, 50; Grammar, 153; Primary, 104; Mixed, 5; Kinder-	
garten, 14.	0.02
Number of school rooms in actual use in December, 1920	327
High, 50; Grammar, 154; Primary, 104; Mixed, 5; Kindergarten 14.	
Average number to each room for year ending June, 1920:	
High, 30; Grammar, 37; Primary, 38; Mixed, 33; Kinder-	
garten, 27.	

Average number to each room for year ending December, 1920: High, 31; Grammar, 37; Primary, 37; Mixed, 33; Kindergarten, 29. Average cost of each pupil for tuition only, based on average	
number belonging: High, \$74.72; Grammar, \$46.35; Primary and Mixed \$39.47;	
Kindergarten, \$58.06. Average cost per pupil, based on the average number belonging, and on the total expenditures for tuition, janitor service, medical inspection, supervision, supplies, fuel and all incidentals VOCATIONAL SCHOOLS	71.49
Boys: Buildings, 1; rooms, 13; teachers, 12; pupils enrolled, 195; ave belonging, 165; average number attending, 151; per cent. of atte Girls: Buildings, 1; rooms, 6; teachers, 7; pupils enrolled, 126; average longing, 110; average number attending, 95; per cent. of attendards.	ndance, 91.
RECEIPTS AND EXPENDITURES Expenditures	
Appropriated and Assessed in 1920	\$945,687.17 945,687.17
Teachers of Day Schools:	
High School	\$115,674.19
Grammar Schools—Bartlett \$24,396.09 Butler 24,325.45 Colburn 12,758.40 Edson 16,152.85 Green 17,978.95 Greenhalge 17,030.48 Lincoln 18,304.05 Moody 15,349.95 Morey 27,898.95 Pawtucket 16,033.58 Riverside 6,549.16 Varnum 22,934.63 Washington 16,966.93	\$236,679.47
Primary and Mixed Schools	143,382.97 23,923.83 22,998.23 24,427.25
Total paid for instruction in Day Schools Summer Schools \$300.00 School Physicians, Dentist and School Nurses. 7,800.00 Janitors: Janitors of Day Schools. 97,053.18 Pensions 844.68 Repairer of Furniture 1,500.00 Evening Schools:	\$567,085.94
Teachers, High and Elementary Schools	
3,000.00	\$130,724.86

Continuation School		12,297.12
Teachers		
Janitors	1,044.00	\$ 10,163.00
Cost of Supervision:		, 10,103.00
Superintendent of Schools	\$ 4,562.52 1,600.24	
Business Agént	2,668,73	
Stock-keeper	1,500.00 1,022.84	
Attendance Officers (four)	7,582.92	
Clerk in Attendance Office	1,000.00	# 10.027.2F
Vocational School Teachers and Janitors	\$ 51,915.82	\$ 19,937.25
Total Salaries, Vocational Schools omitted	740,208.17	
Total Salaries, Vocational Schools included	792,123.99	
Coal (Evening Schools, \$1,500.00)	45,590.72	
Wood	865.50	
Board of Truants	3.330.37 1.686.79	
Electricity (Evening Schools, \$1,200.00)	2,177.99	
Gas General Repairs	4,080,22 2,054.66	
Electrical Repairs	861.17	
Furniture	3,132.15	
Books Paper and Supplies (Evening Schools, \$450.00)	19,157.43 15,489.50	
Paper and Supplies (Evening Schools, \$450.00)	3,225,25	
Janitor Supplies	2,498.54 6,231.08	
Apparatus	340.49	
Dental Supplies	1,017.36 901.13	
Cooking, Etc.	5,240.16	bs.
Material for Sewing	574.89	
Autos Graduation (Evening Schools, \$75.00)	6,169.56 954.05	
Regiment	1,033.85	
Telephones	1,041.94 1,058.07	K
Miscellaneous	283.55	
Appropriation Transfers Continuation	2,942.64 1,598.62	
Physical Training	1,791.45	
Sight Saving	231.22 1,625.64	
Expense of School Committee	2,295.68	
Rents	800-40	
Americanization	13.72	
Total		\$140,295.79

Bills, Vocational SchoolTotal of Bills, Vocational School included	13,267.39 153,563.18
Salaries and Bills, Vocational School omitted	880,503.96
Salaries and Bills, Vocational School included	945,687.17
Analysis of Vocational School Expense	, 15,007.17
Salaries of Day Teachers)
Janitors of Day Schools)
Salaries of Evening School Teachers	
Janitors of Evening Schools	
Smth-Hughes Fund 3,296.0)
The state of Colonies	# £1 01£ 02
Total of Salaries Equipment and Supplies	\$ 51,915.82 13,267.39
Equipment and Supplies	13,207.37
Total Expenditures for Vocational School	\$ 65,183.21
Total Expenditures for Vocational School	
Receipts The receipts by the general treasury on account of the school deing the year were as follows:	
Receipts The receipts by the general treasury on account of the school deing the year were as follows: Vocational School:	partment dur-
Receipts The receipts by the general treasury on account of the school de ing the year were as follows: Vocational School: Smith-Hughes Fund	partment dur-
The receipts by the general treasury on account of the school de ing the year were as follows: Vocational School: Smith-Hughes Fund Reimbursement \$ 3,364.0	partment dur-
The receipts by the general treasury on account of the school de ing the year were as follows: Vocational School: Smith-Hughes Fund Reimbursement Tuition Receipts 3,364.0 \$ 3,364.0 14,633.6 3,046.2	partment dur-
The receipts by the general treasury on account of the school de ing the year were as follows: Vocational School: Smith-Hughes Fund \$3,364.0 Reimbursement 14,633.6 Tuition 3,046.2 Earnings 803.0	partment dur-
The receipts by the general treasury on account of the school de ing the year were as follows: Vocational School: Smith-Hughes Fund \$3,364.0 Reimbursement 14,633.6 Tuition 3,046.2 Earnings 803.0 General:	partment dur-
Receipts The receipts by the general treasury on account of the school de ing the year were as follows: Vocational School: Smith-Hughes Fund \$3,364.0 Reimbursement 14,633.6 Tuition 3,046.2 Earnings 803.0 General: Tuition 6,718.6	partment dur-
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Receipts The receipts by the general treasury on account of the school deing the year were as follows: Vocational School: \$ 3,364.0 Reimbursement 14,633.6 Tuition 3,046.2 Earnings 803.0 General: 71uition 6,718.6 Massachusetts School Fund 66,000.0 Americanization 4,726.0	partment dur-

RECEIPTS AND EXPENDITURES

(Discussion)

The total amount expended by the School Committee for the year 1920 was \$945,687.17; the amount for the year 1919 was \$694,984.02. The increase for 1920 was \$250,-703.15.

Beginning with November, 1919, practically all salaries in the department were increased \$400. The salaries which had been paid in the Lowell school department were much lower than those paid in cities of Lowell's class and standing, and, even with the increase of November, 1919, they were not high when compared with salaries in many cities.

The large items of increase in the year 1920 were as follows: Supervision, including clerks and attendance officers, \$4,332; high school salaries, \$26,848; grammar school salaries, \$47,858; primary and mixed school salaries, \$27,271; kindergarten salaries, \$7,070; special teachers, \$7,919; substitutes, \$13,023; continuation school (opened in September, 1920), \$12,297; evening schools, \$7,269; physicians, nurses and dentist, \$3,214; vocational school, \$22,027; day school janitors, \$26,419; bills, \$46,339.

The receipts by the general treasury of the city, on account of the school department, made up of tuition of non-resident pupils in the public and vocational schools, reimbursement by the state on account of the vocational and continuation schools, money from the Smith-Hughes fund, reimbursement by the state on account of Americanization work, and reimbursement by the state on account of salaries in the public schools, made a total of \$99,291.58; therefore the net expenditure by the School Committee for the year 1920 was \$846,395.59.

The item of reimbursement from the Massachusetts school fund is made up from an allowance of \$200 for every teacher's salary which is not less than \$850.

SCHOOL CENSUS

The following data were obtained from the census of 1920:

(b)	Five years bf age or over and under seven	1,624 6,658	1,740 6,863 1,258	3,364 13,521 2,383
		9,407	9,861	19,268

The law prescribes that every child between the ages of seven and fourteen years shall attend school during the entire time the public schools are in session. If a child has not completed the work of the sixth grade he must attend school until he is sixteen years of age and if he is not employed in useful occupation he must attend school until he is sixteen years of age, regardless of the grade he may have reached in the schools. Every employed child who is less than sixteen years of age must attend continuation

school for a period of at least four hours a week.

The attendance officers do much to secure the attendance of children at school but, notwithstanding their efforts, there are many children in Lowell who are not sent to school with the regularity which the laws contemplate; according to the report sent to the state by the Lowell school department in 1920 the number of children between five and sixteen years of age in the public schools was 11,521 and in the private schools was 7,741; these numbers do not include those who were in the high and vocational schools and were more than sixteen years of age.

SCHOOL HOUSES

In September of this year the use of the New Moody Street and Billings Street schools was discontinued because of the falling off of the numbers in those schools. The children of the New Moody Street school were transferred to the Pawtucket school and the children of the Billings Street school were transferred to the Greenhalge school. These transfers are a move in the right direction, so far as the housing of children is concerned; we should have fewer and larger units, with all the advantages in classification, organization and supervision which are possible to the highest degree only when we have reasonably large numbers in our school units.

A seventh portable school building was provided and located at the Edson school; portable schools are, in the main, very satisfactory for the relief of temporary crowd-

ed conditions and for special uses.

In September, 1921, the enlarged Morey school should be ready for use and we should have the new high school in September, 1922. As soon as these buildings are completed, or even before their completion, there should be a careful and thorough survey of the needs of the city with respect to school buildings for a period of ten or twenty years and plans should be made for school building development in accordance with the findings of such a survey.

RESIGNATIONS, ELECTIONS, RETIREMENTS AND ASSIGNMENTS

The following lists give the changes in the roll of teachers and other employees, due to elections, resignations, retirements and assignments:

William P. Boland
Lillian Walsh Brennan
Celia B. Wood Donovan
Barbara Ham
Ruth Howe
Helen S. Livingston
Ellen A. McQuade
Maguerite J. O'Dwyer
Margaret D. Reynolds
A. Gertrude Stiles
Celia Standish
Anna McNabb Swanson
Ruth Upton
Arthur K. Whitcomb

Ella E. Gardner Arthur K. Whitcomb

Edith J. Atwood
Elmer G. Brennon
Katharine L. Carmichael
James J. Clinton
James F. Conway
Mary V. Coughlin
Flora I. Common
Thomas F. Crowley
D. Murray Cummings
Charles E. Delorme
Julia M. Driscooll
Katherine L. Farley
Dorothy Farnsworth
Charles D. Foley
Anna M. Ford
Charles W. Frost
M. Catherine Gallagher
Margaret M. Garvey
John J. Gildee
Theresa R. Glynn
Margaret G. Gookin
Mary E. Gordon
William C. Hannafin
Thomas Hannafin
Mary E. Harrigan
Margaret Harrington
Patrick Kelley
Mary E. King
Major Colby T. Kittredge

Frances R. H. Leggat

Resigned
High School
Elementary
Elementary
Elementary
Vocational School
Kindergarten Teacher
High School
School Nurse
Elementary
Elementary
Elementary
Elementary
Elementary
Vocational School
Master, Greenhalge School

Retired
Teacher, Charles Street School
Master, Greenhalge School
Elected

Elementary
Junior Submaster, High School
Clerk, School Office
Continuation School
Junior Master, High School
Elementary
Vocational School
Vocational School
Master, Lincoln School
Master, Butler School
Continuation School
Elementary
Kindergarten Teacher
Continuation School
Kindergarten Teacher
Continuation School
Continuation School
Continuation School
Continuation School
Penmanship, Elementary
Head Automobile Dep't Vocatio

Penmanship, Elementary
Head Automobile Dep't Vocational
Elementary
Elementary
Elementary
Continuation School
Head Janitor, Bartlett School
High School
Continuation School
Schoolhouse Janitor
Clerk, Continuation School
Instructor, Physical Education, Vocational and Continuation Schools
Instructor, Phy. Education, High School

Rose V. Lettrell
Michael J. Lynch
Albert D. Mack
George B. Markham
Margaret E. McCann
Anna T. McCarron
M. Grace McCue
Mary A. McKeon
Louise E. McOsker
George McWilliams
Mary H. Meehan
Frances Moriarty
Andrew J. Moynahan
Gertrude F. O'Brien
Katherine M. O'Donnell
Frances O'Neill
Mary J. O'Neill
Katherine C. O'Neill
Harley N. Prescott
Bessie D. Ranlett
Elizabeth J. Regan
William J. Reardon
Myrtle Rooney
Edna J. Rundquist
Raymond W. Slater
Morton A. Sturtevant
Harry M. Tabor
John G. Wolcott

Helen M. Lambert Frances U. Masterson

Thomas A. Ginty

Vera E. Groves

School Nurse Head Janitor, High School Junior Master, High School Schoolhouse Janitor Clerk, Vocational School Continuation School Elementary Elementary Teacher of Sewing Schoolhouse Janitor Head of Evening Millinery, Vocational Elementary
Temp. Teacher, Vocational School
Assistant in Music Elementary High School Eelementary Continuation School Manual Training. Elementary Schools Teacher of Drawing Continuation School Continuation School Assistant Phy. Inst., High School Vocational School Continuation School Junior Sub-master, High School Temp. Teacher, Vocational School Master, Greenhalge School

Reinstated
High School
High School

Assignments

Director of Continuation and Americanization Classes Elementary

In Memoriam

WILLIAM L. CROWLEY
Member of the School Committee

ETHEL V. CLEAVES
Physical Instructor in the High School

KATHERINE E. KELLEY
Teacher in the Butler School

BERNARD H. MAGUIRE
Janitor in the High School

JAMES L. MELLEN
Master of the Lincoln School

NELLIE T. O'GRADY
Teacher in the Eliot School

A. GRETRUDE READY
Teacher in the Charles W. Morey School

ARTHUR K. WHITCOMB
Master of the Greenhalge School

PUPILS BY GRADES

The following table shows the number of pupils in the schools, alcording to grades:

	Males	Females	Total
Kindergartens	247	243 -	490
Grade 1	757	755	1512
" 2	652	619	1271
<i>α</i> 3	585	591	1176
٠٠ 4	659	642	1301
٠٠ 5	598	556	1154
" 6	600	586	1186
" 7	491 -	488	979
" 8	384	343	727
" 9	311	354	665
" 10	272	306	578
" 11	188	280	468
" 12	152	190	342
" 13	98	140	238
" 14	12	5	117
Total	6006	6098	12104

HIGH SCHOOL

The High School graduated a class of 275 in June and there was an entering class of 594 in September. Of this class 404 were from the public schools, 103 from private schools, 75 from towns which have certificate privileges, 7 entered by examination and 12 came from out-of-town schools.

The grammar schools sent 83 per cent. of their graduates, who were certified, to the High School; the average age of the entering class was 14 years.

The graduation exercises were held in Keith's Theatre on June 23; the names of the Carney Medal students, and the names of the students who were awarded honorable mention are here given.

CARNEY MEDALS

Mildred Thelma Manning Victor Brock Darling James Warren Flood Lorna Howes Shaw Raymond Joseph Crowley Millie Jessie Sandler HONORABLE MENTION FOR SCHOLARSHIP ton Mildred Constance Leathers Helen Elsbeth Harrison Alice Clark Bolton Florrie Alderson HONORABLE MENTION FOR ATTENDANCE Louise Adelaide Fay Grace Mildred Horsfall Grace Gertrude Sheehan

Pearl Gertrude Hanchett

Harry Louis McDonough MEDICAL AND DENTAL SUPERVISION

The health of the children in the public schools is supervised by nine physicians and four nurses, all being underthe control of the school department.

The Board of Health employs four physicians for the private schools and their names and the schools they supervise are given below:

DR. F. P. MURPHY-Immaculate Conception, St. Peter's School and Orphan

Asylum, Sacred Heart, St. Stanislaus.

DR. R. C. STEWART—Our Lady of Lourdes, St. Louis', St. Patrick's for Boys, St. Patrick's for Girls, Notre Dame Academy

DR. H. W. JEWETT—Greek Orthodox, St. Michael's, St. Mary's, Mrs. Paxton's

Private School.

DR. MIGNEAULT—St. Joseph's for Boys, St. Joseph's for Girls, St. Joseph's

Pawtucketville, St. Joseph's Kindergarten.

The names of the school department physicians and the schools they supervise are given in the directory pages

of this report.

The school department maintains a dental room in the Worthen Street School, located on Worthen Street between Market Street and Broadway. The room is open on all school days, including days when the storm signal is sounded, from nine until twelve in the forenoon, and service is free for any child from any school, public or private. for whom an appointment has been made; appointments are made by school physicians, nurses, teachers and Miss Lantagne, the dentist's assistant.

Dental Clinic report from Janua	ary 1	to December 31, 1920:	
Amalgam fillings	302	Toothaches treated	54
Cement fillings	162	Cleanings	654
Teeth extracted 1	111	01.11.1	795
Teeth treated	27	Children	193
SCHOOL NURSES' REPORT	r Fr	OM JAN., 1920, TO JAN., 1921	
Number of visits to schools 2,	183	Furuncle	101
Number of pupils examined		Tonsilitis	15
	324	Blepheritis	43
Number of pupils re-examined 16,	491	Sprains	26
	956	Earache	28
Elevated temperatures	47	Conjunctivitis	29
Desqumation of hands	9	Headache	15
Chicken-pox	6	Abscess on finger	1
	148	Strabismus	19
	362	Simple fracture of arm	3
Scabies	53	Anemia	53
Ringworm	8	Desqumation	3
Sore-throat	82	Abscess on head	2
	131	Orthopedic defects Non T. B	23
Nauseated	4	Orthopedic defects T. B	7
Eczema	6	Adhesion of cheek to gum	3
Rash	11	Favus	1
TT 1	2	Constitution	1
	1	Congenital paralysis	1
Septic arm	2	Enlarged turbinated bones	1
Ivy Rash	4	Catarrh	4

	0.4		0
Measles	21	Syncope	. 8
Mumps	14	Defective hearing	11
Whooping-cough	5	Rickets	3
Chronic appendix	1	Dermatitis	3 35
Scarlet fever	2	Functional hearts	25
Iritis	1	Organic hearts	83
	î	Epileptic	2
Acute nephritis	i	TI	21
Angina		Herpes	21
Body lice	1	Otitis Media	35
Scalp wound	1	Rheumatism	1
Herpes	1	Kidney trouble	4
Cough	1	Anterior staphylitis	8
Wet shoes and stockings	1	Pharyngitis	6
Laryngitis	15	Nausea	1 4 8 6 4
Pleurisy	1	Defective speech	12
Figurisy	i		1
Earache	39	Hemorrhoids	1
Contagion found in homes		Croup	
Contagion found in schools	106	Corneal ulcer	4
Scarlet fever	2	Warts	10
Mumps	14	Indigestion	10
Scabies	48	Swollen jaw	2
Chickenpox	5	Fractured clavicle	1
Measles	18	Peritonsillar abscess	ī
Whening cough	5	Foreign body in eye	i
Whooping-cough	12		1
Tooth brushes sold, gross	7,635	Refactory error	
Notices sent to parents		Ecchymosis of eye	11
Personal letters written	73	Occlusion of tear duct	I
Returned improved	873	Myopia	1 2 2 2 4 2 3 4 8 1
Unimproved-still absent	83	Shingles	2
Defects Found		Curviture of spine	2
Decayed teeth	3,737	Bladder trouble	4
Defective nasal breathing	´ 3	Dog bite	2
Enlarged tonsils	1,744	Growth on face	3
	679	Defeative Wells	1
Sore throats	1,723	Defective Walk	9
Pediculosis	598	Deviated septum	0
Colds		Chalazion	1
Impetigo	357	Pulmonary disease	2
Eczema	60	Acne	15
Epistaxis	1	Tonsilitis	13
Cat bite	1	Cleft palate	1
Neuritis	6	Rhinitis	11
Chronic appendix	6	Paronychia	2
Chorea	6	Canker	$\bar{2}$
Contusion of ear	3	Wen	ĩ
	2		1
Foreign body in cornea	58	Cerumen	1
No vaccination scar	152	Dysmanorhea	1
Enlarged cervical glands			
Abscess on face	2 4 2	Treatments	
Abscess in axilla	4		004
Abscess on leg		First aid in schools	994
Discharging ears	21	Consultation with teachers	5,838
Bronchitis	4	Pupils advised	18,557
Burns on hand	2	Home visits (new)	569
Alopecia	4	Home visits (old)	145
Ringworm	10	Hygiene talks in schools	1,435
Unclean	753	Instructions in homes	614
Blister on heel	2	Pupils treated by school dentist	665
Dister on neci		z apino created by sensor dentist	.05

Hordeolum	31 43	Pupils treated by family physician	286
Seborrhoea	1	Tonsils and adenoids removed	664
Hemiplegia	1	Pupils treated by oculist	68
Rash	29	Corrected vision (glasses)	51
Abscess at root of tooth	24	Tooth brush drills	119
Frost bite of toes	1	Treated at hospital clinics	753
Fallen arches	3	Pupils weighed and measured	317
Eye strain	157	Classes taught in home nurs-	
Enuresis	2	ing, Girls' Vocational School	107
Burned arms	4	Pupils admitted to fresh air	
Infections and lacerations	558	room	15

Co-operating Agencies

Massachusetts Commission	of	the	B!ind
Lowell Guild			
Board of Health			
Tuberculosis Nurse			
Miss Skilton			
Police Court			
Corporation Hospital			
Social Service League			

International Institute
Charity Department
Lowell Humane Society
Home for Feeble Minded
St. John's Hospital
Children's Hospital
New England Baptist Hospital
Clothing and shoes donated

SIGHT AND HEARING TESTS

	Pupils Examined		Per Cent. Defective		Per Cent. Defective	
High	1697	134	.0/79	5	.003	139
Grammar	5503	687	.124	122	.022	649
Primary	3807	285	.074	43	.011	224

SCHOOL SAVINGS BANKS

The school savings account is printed below:

	Deposits Dec. 31, 1919	Deposit., 1920
Bartlett	\$ 3,103.93	\$ 2,029.37
Edson		2,329.45
Greenhalge	5,263.02 876.19	3.944.20
Riverside	1,747.57	- 7
Varnum Washington	1,563.41	2,554.38 477. 7 6
	¢12 554 10	d11 225 16
Total	\$12,554.12	\$11,335.16

The increase in living costs is the cause, I believe, of the falling off in school savings. While the total amount on deposit is small, it is an evidence, nevertheless, that the principle of thrift is not neglected in the schools.

VOCATIONAL SCHOOL

The tenth year of the school opened with an enrolment of one hundred and fifty-eight boys and one hundred and three girls. The only requirement for admission to

the day classes of the Vocational School, as far as age is concerned, is that a pupil must be not less than fourteen and not more than twenty-five years of age.

All pupils must be residents of the state; for pupils who do not reside in Lowell there is a tuition charge of \$200.00 for boys and \$190.00 for girls payable by the city or town of the non-resident pupil, as the school is absolutely free to the individual pupil, regardless of his place of residence.

The work is so arranged that a boy may enter at any time and advance as rapidly as his industry and ability will allow.

The school offers preliminary training for boys as carpenters, electricians, cabinet-makers, machinists and automobile repairers.

The boys are trained mostly on productive work in all departments and the work is of such a practical nature that they fit naturally into the industry in advanced apprenticeship standing.

All the courses are planned for three years, seven hours a day, five days a week.

The courses are divided into three phases consisting of about one year's work in each. Upon the satisfactory completion of any phase a certificate is given.

If a boy gets three certificates and works at the trade for which the school has trained him, he is entitled to a diploma.

The courses have been run on a weekly schedule as follows: Shop Science, one-half day; Mechanical Drawing, one-half day; Academics, one day; Physical Exercise, two hours; the remaining two days and one and one-half hours are spent on practical work in the shops

Four rooms 22 ft. x 32 ft. were added to the Boys' School and were ready for use and occupancy the last of December. This addition made a great improvement in the facilities for instruction in auto repairing, carpentry, drawing and science.

The number of boys increased to 170, necessitating the use of two additional rooms at the Worthen Street School. With large second and third year classes returning next September the outlook is for still more crowded conditions.

Many of the lathes in the Machine Shop which were used tools when purchased have become almost useless.

To offset this four new engine lathes and a large milling machine have been purchased; also a drill grinder and a Dalton lathe.

The equipment is as follows:

Machine Shop:

4 milling machines, one universal, 3 shapers, 3 drills, 1 planer, 2 power saws, 1 grinder, 24 engine lathes, 2 speed lathes and other small tools and accessories. Electrical Shop:—

7 direct current motors, from 1 to 10 HP., 4-3 phase generators, 2 motor generator sets, 1 rotary converter, 9 to 3½, 1 Tungar Rectifier, 1 metal shear, 1 winding head, 3-2 KW. transformers, measuring instruments and small tools. Carpenter Shop:—

1 buzz planer, 1 cylinder planer, 1 combination and 1 single saw bench 1 band saw, 1 turning lathe, 20 sets of carpenters tools, benches and auxiliary tools. Automobile Dept.:—

1 Ford car (rebuilt), 1 N. E. Motor generator, 5 auto engines for instruction purposes, 1 starting and lighting system, 1 N. E. Dynamotor, 1 battery charger, wrenches, pliers, jacks, etc., for general repairs, 1 storage voltmeter, 1 electric testing instrument.

GIRLS' DEPARTMENT

Morrill School, Common St., Opp. North Common

(Free to all pupils living in the State of Massachusetts)

This school aims to prepare the girls of Lowell and surrounding towns for life's activities and duties; to give them a training in the branches of knowledge and the trades that are most useful in the home and in gaining a livelihood.

It is recognized that every girl preparing through any kind of an education for life will have more or less to do with a home, with the chances largely in favor of her having at some time the entire care of a home; and upon the proper management of the home depends much of the happiness and success of our community. Hence a training in home economy should be part of every girl's education.

To meet these requirements the Vocational School offers two-year courses in housekeeping, dressmaking and power machine work. In addition the school teaches academic subjects which are related to the practical work in a way that makes their value fully appreciated. Millinery is taken up in season during the second year.

Physical exercise, under direction, is an attraction of the junior and senior years.

Dressmaking—This course is planned to fit a girl for the dressmaking trade. It includes plain sewing, dressmaking, modeling, power machine work and mending.

Mending.

Patching. Darning.

Mending of straight and hedge tears.

Millinery.

Fall and Spring Renovating.

Making of velvet, straw and lace hats.

Trimming.

Flower Making.

Housekeeping—The housekeeping course includes every thing that makes and keeps a house in good condition to live in. It teaches the buyer to get a hundred cents' worth out of every dollar spent for food and clothes. It includes cooking, household management, laundry work, table service, marketing and home nursing.

Cooking.

Economy and management of the kitchen.

- 1. Plain cooking.
- 2. Food values.
- 3. Simple menus.
- 4. Serving.
- 5. Marketing
- 6. Practical application in the home.

Note—Repetition develops responsibility and assurance in the cooking and serving of meals. This practical experience is gained in the lunch room of the State Normal School, now under the management of the Vocational School.

Laundry Course—Includes practice in removal of stains, washing and ironing of all articles of clothing and of household linens.

Household Engineering.

Efficient Household Arrangement.

Plans and methods for Daily Housework.

Choice and care of Household Tools.

Cleaning—Standard Practice.

Labor-Saving Devices.

Home Nursing.

Care of bedroom.

Care of patient.

Bandaging.

First Aids.

Care of the Baby.

Arithmetic in relation to:

- 1. Dressmaking—Millinery.
- 2. Personal expenditure.
- 3. Household.
- 4. Business.

English:

- 1. Correction and improvement of every day speech.
- 2. Personal and business correspondence. 3. Cultivation of a taste of reading.

Civics.

- 1. Government of Communities.
- 2. Current events.
- 3. Local Interests.

Economics.

- 1. Problem of the Standard of Living.
- 2. Price and Wages.
- 3. Industry.

Textiles.

Study of Fabrics.

- 1. Name.
- 2. Cost.
- 3. Durability.
- 4. Uses.
 - . Tests.

Design.

Art as applied to a woman's clothing.

- 1. Color.
- 2. Line.
- 3. Fabric.
 - 1. Appropriateness.

Handicraft.

Through stenciling, painting and needlework, the pupils learn the construction of many useful and artistic articles.

Care of the Home.

- 1. Furnishing.
- 2. Decorating.
- 3. Sanitation.

GIRLS' DEPARTMENT

In February, 1916, the girls' school opened the dining room at the State Normal School and since then has served dinners and luncheons to the faculty and students of the school. This gives a valuable training in preparing food in large quantities and also in serving; the practice proved to be so valuable it seemed wise to make it a permanent part of the curriculum.

The school sent out a class of ten graduates on June 22, 1920.

The State Board of Education exercises a considerable control over the school, as the state has agreed to pay one-half of the maintenance expense of the school. In order to secure reimbursement from the state, the courses of study, equipment, buildings and the work of the teachers must be approved by the agents of the State Board of Education.

EVENING VOCATIONAL SCHOOL FOR MEN

These courses are trade extension and are open only to the men employed in that line of work during the day and sixteen years of age or over.

The school opens early in October and each class meets two evenings a week, two hours an evening, for twenty weeks.

The following courses were offered.

The following courses were offered:	
COURSE NO. 1	BELONGING
Machinist	105
Auto Repair	
Carpentry	
Plumbing	34
Electrical Theory	40
Firemen	45
Engineers	
Defects and beautiful and a	

Definite courses have been laid out and a system of records devised so that each man's progress and accom-

plishment can be kept.

Certificates are given to those whose attendance and ranks are satisfactory. On the certificates are the number of evenings attended and the kind of instruction completed.

WOMEN'S EVENING PRACTICAL ARTS

Courses in cooking, sewing and millinery are in operation in several parts of the city, from October to April, two evenings a week, two hours each evening.

The classes are for employed women and girls sixteen years or over, and 1685 women were in attendance

last year.

The main work is carried on at the Morrill School, but the courses are being run at the following centers:

Butler—2 cooking and 2 sewing classes.

Colburn—Sewing and millinery classes.

Varnum—Classes in cooking, sewing and millinery were held in correlation with the Americanization classes.

Greenhalge—Cooking, sewing and millinery classes.

Pawtucket—Cooking, sewing, millinery and home nursing.

Morrill—Cooking, sewing, millinery and home nursing.

New centers were opened at the Washington, Green and Cabot Street schools, also at the Moody school and the Girls' Community Service.

> Respectfully submitted, THOMAS F. FISHER, Principal.

SCHOOL AND HOME GARDENS

To Mr. Hugh J. Molloy, Superintendent of Schools.

The organized school garden work of Lowell during the season of 1920 was continued under the same organization as in the year previous, the "United States School Garden Army."

Three thousand boys and girls from the different schools in the city enlisted to plant and care for gardens.

The officers of the school garden army did supervisory and clerical work under the direction of the supervisor of primary grades; they visited the gardens assigned to them, and ranked them according to instructions.

When I visited the gardens of a certain district, I was generally accompanied by the captain of that district.

The United States Bureau of Education furnished me with literature, stationery, blanks, garden pins for prizes, gave me franking privileges, and Hon. John Jacob Rogers, our Congressman, supplied seeds, furnished by the United States Department of Agriculture. Without this assistance Lowell school garden work would not hold the enviable record it now does in the State and Nation. Owing to the fact that not so much emphasis had been placed on food production as in the two preceding years, there were fewer large vegetable gardens and more flower gardens.

In some districts such as the C. W. Morey, Pawtucket and Washington, nearly every child had a garden. In the Green and Edson, where there was little land available,

there were many box gardens.

Reports sent to me in November told many interesting stories of a summer's work. It was difficult to put a money valuation on the work done in the whole city. The value of crops harvested by nineteen children in the Washington school district amounted to five hundred dollars. There were four hundred gardens in this district; from personal inspection I know that these gardens were cared for by pupils all during the summer season.

Every child who cared for a garden, even though he had some assistance in the preparation of the land, received a pin furnished by the U. S. Bureau of Education. Special prizes were given for the best garden in each district; this was made possible by having a small amount of money left from the fund provided by the Lowell Board of Trade last

vear.

A boy in the eighth grade in the Pawtucket school won the first prize for the best school garden in the city; the total valuation of all the vegetables harvested in his garden amounted to \$175.00; the only help he had received was the ploughing of a part of his land. A boy in the Middlesex Village school supplied vegetables all summer for a family of five, and had potatoes for winter use. This boy had no help, he was the "Man of the Family" as he wrote in the story of his garden. The market value of his harvest was sixty dollars. There were many gardens in which

there were vegetables harvested amounting to fifty dollars, and there were the box and porch gardens which brought

pleasure and happiness to the proud owners.

One of the most unique gardens in the city was at the junction of two streets in a triangular plot of land in the middle of the road. This plot was surrounded by burdock bushes and was overgrown with grasses and low bushes. Two boys in the Abraham Lincoln school cleared the land, fertilized it and prepared it for planting; the burdock bushes were left for protection against intruders. Beans, peas, lettuce, carrots, corn, tomatoes and squash were grown in this garden.

The joint owners of this garden received cash prizes and one deposited his in the bank as the beginning of a

fund to enable him to go to college.

At the close of the year 1920, the United States School Garden Army is disbanded. During the world war when there was danger of a food famine it was called into existence by the President of the United States, and the fact that school children were ready and responded was a big asset to the Nation.

An appropriation was made by Congress to assist, support and encourage the movement. Now that we have returned to normal conditions this work which has proved its worth economically and educationally is turned over to

local authorities.

I do not know what the future holds for school garden work in Lowell—it has grown from one school garden and a small number of home gardens to a big organization with gardens in every district in the city, and there should be a trained supervisor in every district if the work should be continued.

In closing I quote from a recent bulletin of the U.S.

Bureau of Education:

"Fortunately all educators now understand that such real experiences as children get in gardening are essential to any education worthy of the name, and that the teaching and supervision of the subject is a proper part of any school system, coming definitely under the control of the school authorities and should not be subject to any outside agency."

Respectfully submitted, ALICE T. LEE.

REPORT ON PHYSICAL EDUCATION

In conducting the Physical work during the past school year I have endeavored to retain the co-operation of the teaching faculty of the several grammar schools of Lowell. With their co-operation the results of the physical work have been very satisfactory.

The co-operation of the school physicians and nurses has been excellent. They have shown at all times by their willingness to help that they believe that the physical work as now carried on is beneficial to the children receiving it.

The work of my assistant, Miss Nelle Horner, has been of very high grade, and she has rendered very val-

uable help.

In the fall of 1920 I introduced a system of Swedish Educational Gymnastics graded for grammar school work and comprising a card system so laid out that each class has a set of twenty separate lessons so arranged that each lesson is more advanced work than the previous lesson. Each teacher has her own set of cards, a manual (A B C of Swedish Educational Gymnastics by Hartvig Nissen) and a pamphlet on marching tactics and games.

The schedule of fifteen minutes daily as laid out by the grammar masters has been carried out in a conscientious manner.

Quite a marked advance has been made in organized play during the past year, in such games as inter-class volley ball, captain ball, basket ball, base ball and numerous other games; in fact it has become so popular that interschool games have been arranged and played very successfully. These have been conducted largely by the upper grade boys and girls, who, after having been taught the rules of such games and how to play them, have become very efficient captains and leaders and under the supervision of the teachers have conducted games with the smaller children.

The annual athletic meet of the Grammar School Boys was held on the South Common April 19, 1921 and was very successful.

The Grammar School Base Ball League, consisting of twelve teams was carried on in a most satisfactory manner.

Knowing that the results of Physical Training are especially beneficial to those suffering from poor sitting or standing posture, improper method of breathing, lack of fresh air, improper care of the body, round shoulders, flat

chests, hollow backs, flat feet and faults in the neck, shoulders and hips, we have given close attention to the following:

Examination for defects of individual pupils while

standing.

Inspection for defects of individual pupils while marching.

Inspection for defects of individuals while exer-3.

cising.

I am satisfied that the work as accomplished during the past school year has proven very beneficial to the children as a whole.

The Accident Prevention work for which I am responsible in the Elementary schools of Lowell has proven of great value to the school children and has been a great factor in cutting down the casualties among the school children of Lowell.

The fire drills in the Elementary schools of Lowell have been worked out so that I am satisfied that in case of fire the discipline and control of the teachers in marching their classes out of school as they do has practically eliminated

all danger to those taking part in the drills.

At this time I would like to thank the members of the School Committee for the support given me in furthering Physical Training and Accident Prevention work in the Elementary schools, also the Superintendent of Schools, Mr. Hugh J. Molloy, for his earnest support, consideration and advice in the above work.

Respectfully submitted,

WALTER R. JEYES, Director of Physical Training.

REPORT OF THE SUPERVISOR OF PRIMARY GRADES AND KINDERGARTENS

The entering age of children to the primary school having been changed at the close of the last school year from five years to five years and three months, teachers of the first grade find that their pupils, as a class, have been better able to grasp the work of the grade this year than in previous years. Still better results are looked for next year, when the entering age will be five years and six months.

Sub-primary work has been commenced in some kindergartens and has proved very satisfactory. A more definite plan is being worked out for next year in order to unify the work in all kindergartens.

Owing to the number of non-English speaking children who enter our schools, conditions are not the same in different sections of the city. In some schools more than ten different nationalities are represented; these children of different nationalities come from homes where no English is spoken and where customs and manners are different.

The kind and manner of instruction given to such children must be different from that given to our own children, and when both English and non-English speaking child-

ren are in the same room much valuable time is lost.

In the kindergarten pupils get oral language and are prepared for primary work; the problem is different in the primary school where the mechanics of reading, oral expression, and the beginning of written language must be taught.

If this work is well done in the lower grades there is less retardation in the higher grades, but it cannot be well done in over-crowded schools with mixed classes of child-

ren.

There have been special classes in the Green and Colburn districts for non-English speaking children of gram-

mar school age.

A class recently formed in the Ames Street primary school has greatly improved conditions in the Ames Street and Colburn primary schools. The appointment of a teacher to help in the Worthen Street and Cross Street schools, giving one half day to each school, has proved beneficial.

Much has been done to improve conditions in overcrowded schools, and there is more that could be done were

there more rooms and more teachers.

We are fortunate in having a very clearly defined "Course of Study" with minimum and maximum requirements. All primary grades, no matter what the conditions may be, are expected to complete the minimum requirements.

The reading, on account of our uniform phonetic system and the amount and kind of reading material supplied by the School Department, is excellent in the greater number of primary schools. As soon as children have acquired the power to read, they love to read.

Teachers wish to express their appreciation to our Superintendent and School Board for the ability to foster this love of reading in their pupils by being generously supplied with the best and latest reading books.

Respectfully submitted.

ALICE T. LEE.

JUNIOR HIGH SCHOOLS AND CHANGES IN GRADES

In August, 1919, Superintendent Van Sickle of Springfield was employed to make a brief survey of the Lowell school situation with special reference to junior high school

organization.

Mr. Van Sickle's report, strongly favoring the junior high school organization, was submitted before the end of August, and at a meeting on September 3, 1919, the superintendent was instructed by the School Committee to prepare and submit a scheme for the reorganization of the schools of the city under the 6-3-3 system with junior high schools and eight grades instead of nine.

On December 3 the superintendent submitted a report containing the results of his investigation and making a

number of specific recommendations.

The following statement characterizing the junior

high school, was an important item in the report.

What is a junior high school? A junior high school is a school which combines the last two grades of the elementary or grammar school system and the first or freshman year of the high school; according to the best standards it should be maintained in its own properly-equipped building since it is a school of distinct character and purpose, but it may be and is maintained in buildings which contain other grades or units. But, as a part of a 6-3-3 system, and I refer to the 6-3-3 system as it is understood by all educators and administrators, a true junior high school must present certain definite features.

1. It should show a segregation or grouping in one school location of the children of the last two grammar school and the first high school years of a district of considerable size because these children form a rather distinct group as to age and temperament, and in order that their instruction will be so devised as to make an easy transition

from elementary to high school methods.

2. Larger numbers of children than the ordinary grammar school has in its last two grades should be brought together in the junior high school group so that there may be a differentiation or a proper classification of children according to their tastes, tendencies, abilities, future courses of study in the high school, or occupations at the completion of their school attendance.

3. The junior high school should offer such range of subjects and activities as will serve to discover and test out the tastes, abilities and inclinations of boys and girls to a greater extent than is now possible in the ordinary type of

grammar school.

4. The teaching in all large or important subjects should be departmental; that is, the teacher of any subject should be a specialist in that subject and should give his time in the school almost exclusively to that subject, it being understood, however, that each child shall be assigned to a regular or "home-room" teacher who will have charge of all his minor subjects and have a personal interest in his attendance, conduct and general well-being.

5. There should be in the junior high school a closer and more intimate relation with the high school with regard to supervision, direction and co-operation than generally exists between the ordinary grammar school and the

high school.

6. The courses offered in the junior high school should be such courses as may or will be continued in the senior high school and the method of treating them should be such as will harmonize with the continuation of those

courses in the high school.

7. The third year of the junior high school unit must do fully and thoroughly the work of the first or freshman year of the senior high school so that the boy or girl who completes the three years of the junior high school organization will enter high school as a member of the second

vear or sophomore class.

Any 6-3-3 system or junior high school system which does not show the characteristics which have been referred to in the preceding seven points is not a 6-3-3 or junior high school system. If we are to have junior high schools, true junior high schools, we must arrange junior high school districts and bring together at each one of several central points all of the upper-grade children who are contained in the several grammar schools of a district. Segregation, differentation, variety of courses, and proper equipment cannot be provided for on any other basis.

After consideration of the recommendations, the com-

mittee adopted the following measures:

1. That no material or considerable change be made in the organization, grading, courses of study, assignments of teachers, or locations of pupils until the beginning of a

new school year in September.

2. That detailed plans be prepared forthwith, courses of study arranged, teachers prepared, and necessary equipment provided for the organization of the Bartlett School as a Junior High School for the children of the Bartlett-Green-Pawtucket district; for the organization of a Moody-Riverside-Colburn district with the Moody School

as center and the Varnum-Greenhalge district with the Varnum School as center, said organization to go into effect in September, 1920.

- 3. That the organization of Junior High School units in the other districts of the city be entered upon as soon as a suitable addition in the Highland district and a suitable building in the Edson-Butler district shall have been provided.
- 4. That a formal inquiry be made of all teachers who are interested in junior high school work as to their qualifications, that courses be suggested for the suitable preparation of teachers who aspire to this work and that teachers for any grade of junior high school work, as such work may be established in the future, be selected by the superintendent of schools with the advice of the principal of the junior high school in which the teacher is to serve and of the high school department-head with whose work in the senior high school the work of the teachers in the junior high school will correlate, such selection to be with the approval of the school committee.
- 5. That in junior high school organizations the salary of the teacher who does purely elementary work be on the elementary schedule, the salary of the teacher who does exclusively work of high school character be on the high school schedule and that the salary of a teacher whose work is a combination of elementary and high school work be on a schedule between the elementary and the high schedule.
- 6. That the method of changing from nine grades to eight be along the lines referred to in the discussion of city No. 3 in the report; that high school studies be dropped down gradually into the ninth grade, that some important work of the eighth grade be dropped down to the seventh, so that little by little and by steady advances the work done in what we now call the seventh, eighth and ninth grades may become the work of what we now call the eighth, ninth and high school freshman classes; this work can be done to good advantage, however, only where we bring together larger groups of children than we are dealing with at present.
- 7. That the entering age of children in first year primary be raised gradually, perhaps three months each year for a period of three years, and that plans be made for a gradual enlargement of the sub-primary or kindergarten class for the accommodation of children between the ages

of four or four and one-half and five and three-quarters years.

- 8. That the study of Latin and French as electives and the study of algebra, constructional geometry, and commercial subjects, and practice in manual and domestic arts be gradually introduced or extended in what are now the eighth and ninth grades with a view to the merging of those grades eventually into the last grammar and the first high school year grades. That changes in the organization of the schools be made with a view to the enlarged capacity of the high school within the next three years and of the Morey school within two years.
- 9. That the headmaster and heads of departments of the high school and the masters and principals of grammar schools be consulted and advised with from this time on in the carrying out of this school policy."

Early in the year 1920 the School Committee approved the plan to place the Bartlett school on a junior high school basis, this plan including the transfer to the Bartlett school of the upper grades of the Green and Pawtucket schools in September.

A further study of the plan, however, led to the conclusion that it would be best to transfer for the first year only the seventh grades of the Green and Pawtucket schools; the result of this change was that when the school opened in September it was not at once filled to capacity and opportunity was given for a gradual adjustment of classes and teachers to the new plan; at the same time the Green and Pawtucket schools were not so radically changed in their organization as they would have been had their seventh, eighth and ninth grades been removed at once.

By September, 1922, the Bartlett school will have all the children of the district who are above the sixth grade and the Green and Pawtucket schools will be elementary schools of only six grades.

The organization which has been begun in the Bartlett school district will be started in the Morey school district in September, 1921, and we shall be able by gradual and careful development to secure a classification and variety of work for the children of those districts which could not be secured under the old conditions.

CONTINUATION SCHOOLS

The act of the Legislature, establishing continuation schools for all employed minors between the ages of fourteen and sixteen years, approved July 15, 1919, was accepted by the voters at the state election in November, 1919.

The law prescribes school attendance of not less than four hours a week for employed minors, and such attendance must be between eight o'clock in the morning and five o'clock in the afternoon on any working day except Sat-

urday.

In most cities the housing of the continuation pupils presented the great difficulty; we were fortunate, however, in being able to provide very satisfactory accommodations by using for afternoon sessions the building known as the high school annex, this use being made possible by a slight change in the hours of attendance for the freshman class in the high school.

The school opened in September with a principal and twelve teachers, six women and six men; three men and three women were assigned to academic work and the

others to vocational work.

The teachers had taken a preliminary course of training at Hyannis normal school in August and the school was

opened under very favorable auspices.

In order to secure kitchen accommodations for the girls who elected cooking, one class of girls was assigned to the Green school, an arrangement which was made possible by placing the ninth grade in that school on a one-session basis.

The opening registration of the school was eleven hundred, six hundred boys and five hundred girls. Half the time of each pupil is spent upon academic work; the girls devote the remainder of their time to work in dressmaking, millinery and cooking, and the boys to shop work of various kinds and mechanical drawing.

Time will undoubtedly prove the value of this new type of school, and will also prove that continued contact with school during their first two years of employment will advance the welfare of our boys and girls to a marked de-

gree.

EVENING SCHOOLS

The administrative and teaching force for the evening schools of Lowell is the same as for the day schools, except in those departments where the registration for evening classes is so large as to necessitate the employment of extra or special teachers. The evening schools which we maintain are public schools and prescribed by law just as the day schools are: in some respects, indeed, the work of evening classes is more difficult than the work of day classes, and from some considerations inherent in the problem of evening schools we might easily reason that they should have better teachers than those in the day schools, if we were able to secure them.

The evening schools have been well attended, and attendance, for the most part, has been voluntary. Americanization classes for adults and vocational classes, these being maintained in part by the state, have been very sat-

isfactory.

Early in the year mill classes in English and civics were established in the Massachusetts mills: these classes had their sessions at noon and late in the afternoon and were taught without exception by regular teachers.

SCHEDULE OF SCHOOL SESSIONS AND VACATIONS

High School:—8.40 A. M. to 1.40 P. M. (Freshmen 7.50 A. M. to 12.50 P. M.)
Junior High School:—8.30 A. M. to 11.30 A. M. and 1.15 P. M. to 3.45 P. M.
Elementary Schools:—8.30 A. M. to 11.30 A. M. and 1.45 P. M. to 3.45 P. M.
Middlesex Village:—9 A. M. to 12 M. and 1.30 P. M. to 3.30 P. M.
Lexington Avenue:—8.45 A. M. to 11.45 A. M. and 1 P. M. to 3 P. M.
Vocational School, Boys':—8.30 A. M. to 12 M. and 12.30 P. M. to 3.30 P. M.
Vocational School, Girls':—8.30 A. M. to 12.30 P. M. and 1 P. M. to 3.36 P. M.
Evening High School:—7 to 9.
Evening Vocational Schools:—715 to 9.15 Evening Vocational Schools:—7.15 to 9.15. Evening Elementary Schools:—7 to 9.

VACATIONS

Summer Vacation—from the Wednesday preceding the last Friday in June to the second week in September.

The week which includes Christmas.

The week beginning with the ninth Monday and the week beginning with the eighteenth Monday after the Christmas vacation.

Hours for ringing the no-school Signal:—7.15 A. M., 12.45 P. M. and 6.05 P. M.

SUMMARY OF EVENING SCHOOL ATTENDANCE For Term 1919-1920

SCHOOLS	Rooms in School	at Beginning Term	s at Close Term	. Taught	Nı	hole umb on gist	er	Νι	erag imbe ongi	r		veraș enda		f Attendance	t	Mino Unal o Re d W Eng	ole ead
SCHOOLS	Number of Each	Teachers at	Teachers of T	Evenings	Males	Females	Totai	Males	Females	Total	Males	Females	Total	Per Cent. of	Males	Females	Total
High Cabot St Edson Green Greenhalge	37 2 5 8 3	2 4 11	ì 2	75 68 68 68 68	90 222 78	69 61 133	1460 69 151 355 138	285 50 89 25	418 45 31 85 27	703 45 81 174 52	232 41 72 22	357 37 26 70 22	589 37 67 142 44	81 82 83 83 85	7 39 14	25 17 10 32	25 24 49 46
Totals	55	57	56	347	990	1183	2173	449	606	1055	367	512	879	83	60	84	144

REPORT OF ATTENDANCE OFFICERS FOR THE YEAR 1920

Illiterate Setfinities	98	9	66	1113	108	158	102	122	161	61	46	31	1149
Educational Cert. Issued 16 to 21 yrs.	461	303	25.0	572	533	734	543	446	524	294	174	63	5295
Employment Cerc. Issued 14 to 16 yrs.	140	Ξ	203	209	222	220	141	901	271	65	23	30	1735
violating the Rules foods to	С	· C	0	0	0	0			0	0	0	0	0
o noituoseorq Parents	-	-	- C	0	0	0			0	0		0	3
Placed on Probation			-	-	0	0			0	2	0	0	4
Sent to the Middlesex County Training School	0	-		· —	3	0			0		2	0	7
Arrested	0	· C	-	(7)	c.	0			0	'n	63	0	Ξ
əmi'T briid'T bətisiV	ır	-	000	2	4	_			0	7	LC:	0	32
əmiT bnoos bətisiV	22		28	15	30	9			12	48	27	14	222
Wandering on the	62	38	265	65	73	74			46	89	28	49	592
Truants	22	7	5	46	62	73			21	62	27	23	351
Absentees	340	140	431	260	358	124			238	374	258	231	2763
Total Number Cases Investigated	362	156	483	306	420	153			259	436	285	254	3114
	nnarv	charlour.	farch	pril	[arv	une	uly	ugust	eptember	ctober	Jovember	ecember	Totals
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1735	5295 1149	35	459	8711
Employment Certificates Issued	Literate Educational Certificates Issued	Special Part TimeHome Cards	Vacation Certificates	Total

CONCLUSION

School systems of today, in large cities especially, are very complex, but much of their complexity, to one who will take the proper time and means for studying them, is very simple.

Many new activities have come into the schools in recent years and have so clearly demonstrated their value that they have become fixed in the system, some of them having been prescribed by law after a time.

It must be remembered that we are dealing with the great problem of general education, the education of all the children of all the people, as it has never been dealt with before on so large a plan in the history of the world. The schools are the "greatest community enterprise" and as such need the direction and care of the wisest, best-trained and most public-spirited men and women in the community.

Respectfully submitted, HUGH J. MOLLOY, Superintendent of Schools.

ROLL OF TEACHERS

Giving name, subjects or grade taught and residence

HIGH SCHOOL

Kirk and Anne Streets

Henry H. Harris, Head Master, 93 Eleventh	\$3,700
Frederick R. Woodward, Sub-Master and Head of Dept. of Mathematics	
24 Sanders Ave	3,200
Fred Albinson, Bookkeeping, 8 Newbury	2,400
Jennie L. Allen, Physics, 947 Middlesex	1,780
Alice H. Bacheller, Typewriting, History IV, Commercial Law and	•
Arithmetic	1,780
Adelaide Baker, Head of Department of French, 136 Myrtle	1,880
Orton E. Beach, Stenography and Office Training, 859 Chelmsford	2.400
Emma L. Bradley, French, 11 Belmont	1,780
Emma L. Bradley, French, 11 Belmont	2,600
C. Fred Campbell, Manual Training, 226 Princeton	2,400
Marietta Cassidy, Latin, 4 Fifth Ave	1,780
M. Mabel Cassidy, History, English and French, 44 B.	1,780
Helen E. M. Choate, Mathematics, 21 A.	1,280
Alice L. Cluin, Latin and Algebra, 130 Fort Hill Ave	1,680
Alice L. Cluin, Latin and Algebra, 130 Fort Hill Ave	•
worth Ave	2.800
Grace D. Donovan, History IV and English, 256 Branch	1,780
Ruth L. Eaton, Assistant to Principal, 59 Pine	1,780
Ruth L. Eaton, Assistant to Principal, 59 Pine Esther Elliott, Algebra and Latin, 25 Fairview	1,580
Edith C. Erskine, Botany, German and History, 25 Clark Road	1,680
Ethel M. Everett, Algebra, Civics and Ancient History, 74 Fort Hill Ave.	1.780
Bertha W. Ferguson, Bookkeeping, 100 Myrtle	1,780
Florence R. Foote, French, Algebra and History, 28 Wannalancit	1,780
John J. Gardner Algebra, Commercial Law and Arithmetic, 17 Waterford	1,480
Grace M. Goodhue, Ancient History, 120 School	1,780
Peter J. Gulesian, Manual Training, Blanchard Ave., Billerica	2,270
Mary E. Harrigan, Latin, English and Commercial Geography, 50 Highland	1,180
E. Irene Hogan, English and Alegbra, 117 Clark Road	1,280
Bessie E. Huntoon, French, 64 Warwick	1,780
Bertha C. Huse. Pianist. 1125 Middlesex	1,050
Elizabeth Irish, English and Geometry, 11 Willow	1,380
Mary M. Joyce, Expression, 82 Eleventh	1,780
Mary H. Killpartrick, Commercial Georgraphy, History IV and English,	
27 Maryland Ave	1,780
27 Maryland Ave	1,780
Genieve E. Lawrence, Algebra and English, 53 Berkeley Ave	1,680
Frances R. H. Leggat, Physical Director. 640 Broadway	1,480
Albert D. Mack, Junior Master, Head of Commercial Department, 20	
Wentworth Ave.	2,800
Mary L. Martin, Latin and English, 39 Durant	1,780
H. Estelle Moors, Algebra and English, 104 Moore	1,580

Elizabeth H. Murphy, French, History IV, Commercial Law and Arithmetic,	1.780
159 White Donald R. MacIntyre, Physical Director, 20 Webber John D. McKinley, Latin, 474 Beacon Loretto A. McManmon, English and Algebra, Dracut, Mass	2,270
John D. McKinley, Latin, 474 Beacon	2,130 1,580
Frances O'Neil, Algebra and Geometry, 12 Osgood	1,180
ington	1,780
Esther A. Owens, Latin and English, 4 Belmont	1.280
Gertrude A. Rodliff, English, Chelmsford Centre	2,400 1,780
G. Myrtle Rooney, Assistant Physical Director, 238 Pine	1,180 1,780
John I. Savage, English, Greek, History, Physiology and Commercial	·
Geography, 56 Simpson Ave., Somerville	2,130 1,480
Charles E. Seede, Manual Training, 4/6 Merrimack	2,470 1,780
Millie A. Severance, English and Physics, 302 Stevens	2,400
Mary G. Stevens, French 576 Westford	1,780 1,780
James A. Shanley, Bookkeeping, 364 Lawrence	1,780
50 Rea	2.500
Edward J. Thompson, Physiology and Spanish, Chelmsford Centre	2,010 1 780
Mary E. Tobin, English and History IV, 52 Highland	1,780
Major Colby T. Kittredge, Military Instructor, 48 So. Walker	200 1,000
Ianitors	,
Michael J. Lynch	
Herbert R. Baker	
Arthur H. Dana52 Myrtle	
Michael H. Finnegan141 Fayette William Mack	
Charles E. Thornton	
John J. Woran45 Anderson	
GRAMMAR SCHOOLS	
BARTLETT SCHOOL	
Wannalancit Street (Normal Training School)	
	40 570
Charlotte M. Murkland. Principal, 179 Pine Sara E. Ames, gr. 9, 8, 7, History, Physical Work and Penmanship,	\$2,570
	1,730 1,730
Edith J. Atwood, gr. 8, 7, English and Office, 19 Robbins. Kathleen E. Driscoll, gr. 9, 8, 7, Geography, 47 Grace. Katherine F. Farley, gr. 5, Lowell, R. F. D., No. 3. Katherine L. Farley, gr. 6, Lowell, R. F. D., No. 3.	1,730
Katherine L. Farley, gr. 6, Lowell, R. F. D., No. 3 Katherine L. Farley, gr. 6, Lowell, R. F. D., No. 3	1,480 1,000
Eleanor J. LeLacheur, gr. 4, 128 Fourth. Helen Mansfield, gr. 7, History and English, 12 White. Addie B. Merrill, gr. 7, Marthematics, 465 Bridge. E. Belle Perham, gr. 4, 100 Riverside.	1,48 0 1.490
Addie B. Merrill, gr. 7, Marthematics, 465 Bridge	1,730
	1,480

Belle A. Prescott, gr. 9, 8, 7, English, 50 Mt. Vernon	1,730 1,550 1,480 2,250 1,570 1,830 1,730 1,240
Gorham Street	
Charles E. DeLorme, Master, Algebra, 136 Bellevue. Delia T. Brady, gr. 9, 8, 7, Geography, 183 Chapel. Helen L. Clark, gr. 9, 8, 7, Grammar and Language, 222 High. Marguerite J. Cronin, gr. 9, 8, 7, Reading and Literature, 228 Plain. Mary E. Crowley, gr. 6, 75 Liberty. Annie J. Devine, gr. 6, 154 Carlisle. Theresa R. Glynn, Groups, 196 Pleasant. *Margaret G. Hyde, gr. 4, 900 Central. **Sarah D. Ivers, gr. 4, East Chelmsford. Mary E. Lane, gr. 9, 8, 7, Domestic Science, 12 Ellsworth. Mary L. McSorley, gr. 5, 40 Huntington. Nellie F. Murphy, gr. 9, 8, 7, Arithmetic, 85 Sherman. Alice C. O'Brien, gr. 6, 300 Wilder. *Mary G. Quinn, gr. 4, 28 Chapel. Margaret K. Riordan, gr. 5, 8 Suttle Ave. Charles E. Seede, Manual Training, 476 Merrimack. Sadie E. Tuliy, gr. 9, 8, 7, History and Civics, 111 Westford. * Room in Carter St. School.	\$1.900 1,480 1,480 1,480 1,480 1,480 1,480 1,480 1,480 1,480 1,480 1,480 1,480 1,480
lanitors	
Terrance F. Casey	6.
COLBURN SCHOOL	
Lawrence Street	
Helen M. Shean, Prin., Language and Grammar, 260 High	\$1,900 1,480 1,480 1,480 1,480 1,480 1,580 1,480 1,480

Janitor	
Patrick J. Mahoney16 Lyon	
EDSON SCHOOL	
Highland Street	
Leo A. King, Master, 4 Astor	\$2,820 1,080 1,480 1,580 1,480 1,480 1,480 1,480 1,480 1,480
Janitors OC Milled	
John H. Condon	
GREEN SCHOOL Merrimack Street	
Elizabeth Provencher, Principal, 22 West Bowers. Hannah M. Barrows, gr. 9, Domestic Science, 6 Hunt. Agnes T. Courtney, gr. 5, 11 Marsh. Mary F. Devine, gr. 8, 1527 Gorham. Carrie E. Erksine, Special, 74 Fort Hill Ave. Jennie E. Fay, gr. 6, 115 Stackpole. Mary V. Johnson, gr. 4, 183 Wilder. Jane T. Johnston. gr. 4, 33 Webber. Katherine F. McCarthy, gr. 5, 647 Market. M. Alice McCue, gr. 6, 536 Rogers. Lizzie A. Nolan, gr. 6, 210 Pawtucket. Ianitors Oscar W. Brown. Oscar W. Brown. William S. McKenzie, jr. 87 Gershom Ave.	1 500
the state of the s	
GREENHALGE SCHOOL Ennell Street	
John G. Wolcott, Master, 115 Nesmith	\$2,620 1,480 1,480 1,580 1,480 1,240 1,480 1,480 1,480 1,480 1,480
jantors	
JohnBarrett19BurnsideDavidE. Cornock821BridgeJamesHounsell704Bridge	

ABRAHAM LINCOLN SCHOOL

ABRAHAW LINGOLN SCHOOL	
Chelmsford Street	
Chelmsford Street D. Murray Cummings, Master 64 Temple Mabel W. Ewings, gr. 5, 3 Astor Ellen L. Floyd, gr. 4, 124 Stevens Irma V. Hodgman, gr. 9, Mathematics, 632 Westford Margaret S. Jamieson, gr. 5, 19 West Forest Harriet L. McAloon, gr. 8, Literature, 112 Sixth Margaret G. McDonald, gr. 6, 397 Broadway Mary T. O'Neil, gr. 6, 175 Walker Elsie M. Puffer, gr. 4, 942 Middlesex Dorothy F. Riordan, gr. 7, 8 Suttle Ave Margaret M. Sparks, gr. 9, History, 169 Fort Hill Ave Bride T. Sweeney, gr. 7, Grammar, 12 Cascade Ave Sadie A. Taff, gr. 8, Composition, 235 Stackpole	1,720 1,480 1,480 1,480 1,480 1,000 1,480 1,160 1,480 1,480 1,480 1,480 1,480
Ianitors	
Edward Cullen	
MOODY SCHOOL	
High and Rogers Streets	40.000
William S. Greene, Master, Arithmetic and Algebra, 302 Nesmith	\$2,820 1,480 1,580 1,480 1,240 1,480 1,240 1,480 1,480
Janitors	
John O'Connor	
CHARLES W. MOREY SCHOOL	
Pine and Wilder Street	
William W. Dennett Master, History and Algebra, 400 Stevens. Lillian E. Alister, gr. 5, 71 Wedge	\$2,820 1,480 1,480 1,480 1,480 1,480 1,480 1,580 1,160 1,480 1,480 1,480
sition, 148 Fort Hill Ave	1,08 0

**Minnie Owens, Special, 4 Belmont	1,480 1,480 1,480 1,480 1,480 1,480 1,480
PAWTUCKET SCHOOL	
William P. Barry, Master, 1280 Middlesex. Delia F Briscoe, gr. 8, Lowell, R. F. D. No. 3. Anna I, Cassidy, gr. 6, 4 Fifth Ave	\$2,820 1,480 1,480 1,480 1,480 1,480 1,480 1,000 1,400 1,580
RIVERSIDE SCHOOL	
Woburn Street, Wigginville Rosalie T. Burns, Principal, gr. 9, 8, 39 Whitehead Ave. Elizabeth A. Gilinson, gr. 6, 3 Bourne. Christine M. Kane, gr. 5, 4, 339 High. Harriet L. Wheeler, gr. 7, 64 Morton	\$1,780 1,480 1,580 1,480
John H. D. Toy	
VARNUM SCHOOL Myrtle Street	41 720
Elizabeth C. Kennedy, Principal, Grammar, 223 Pine Florence E. Archibald, gr. 5, 112 Fremont Susan F. Burbank, gr. 8, History, Chelmsford Centre. Rose A. Dowd, gr. 6, 127 Beacon Agnes T. Fay, gr. 6, 123 Third Mary A. Fay, gr. 7, 123 Third Grace E. Frye, gr. 8, Domestic Science and Geography, 93 Vernon Ruth F. Hathaway, gr. 4, 106 Durant Ada E. Hoole, gr. 4, 465 Bridge Margaret F. Howe, gr. 5, 208 South Alice R. Keese, gr. 5, 168 Sixth Alice F. Morrill, gr. 4, 56 Sixth Mary R. Seery, gr. 7, Arithmetic and Geography, 127 Beacon H. Madeline Sullivan, gr. 7, Grammar and History, 250 Rogers Grace M. Thurber, gr. 9, Grammar and Geography, 42 Mansur Charlotte C. Walsh, gr. 9, Arithmetic and Music, 85 Eleventh	\$1,720 1,480 1,480 1,480 1,480 1,580 1,240 1,480 1,480 1,480 1,480 1,480 1,480 1,480 1,480

PRIMARY SCHOOLS

The grammar school to which each primary belongs is indicated in parent Alice T. Lee, Supervisor of Primary Grades, 12 So. Walker	\$1,800
AGAWAM STREET (Butler) Mary A. Fay, Prin., gr. 3 and 2, 115 Stackpole	\$1,530 1,530
John H. Hallett17 London	
AMES STREET (Colburn) Lawrence and Ames Street	
Rose E. McVey, Prin., gr. 2, 46 Linden	\$1,530 1,480 1,480
John T. McCarty17 Westwoods	
BARTLETT (In Bartlett School)	
Grace C. Delaney, gr. 3, 4, 82 Colonial Ave Regina B. Frappier, gr. 3, 26 Hampshire Emma M. Graham, gr. 2, 3, 419 Chelmsford Frances C. Moriarty, gr. 2, 418 Walker Essie E. Roche, gr. 1, 1835 Middlesex Mary E. Snow, gr. 1, 89 School	\$1,480 1,320 1,480 1,480 1,480 1,480
CABOT STREET (Green) Mary T. Whelley, Prin., gr. 3, 254 Parkview Ave Loretta A. Hannafin, gr. 2, 15 Sargent Ellen F. Lynch, gr. 2, 104 School Mary J. Murphy, gr. 1, 34 Butterfield John E. Hart	\$1,530 1,480 1,480 1.480
CARTER STREET (Butler) Katherine F. Brady, Prin., gr. 1, 173 Chapel Henriettta I. Grady, gr. 2, 39 Lundberg Henlen R. Halloran, gr. 3, 546 Merrimack Janitor	\$1,530 1,480 1,480
Timothy Moynihan38 Whipple	
CENTRAL STREET (Colburn) Elizabeth G. Lawler, Prin., gr. 3, 2, 269 High Helen A. Drury, gr. 1, 348 Wilder	\$1,530 1,480
William P.I Black900 Central	

CHARLES STREET (Edson)	
Alice T. Wens, Prin., gr. 3, 4 Belmont	\$1,530 1,480 1,000
Ianitor	
James F. Leary249 E. Merrimack	
- COLBURN (Colburn)	
Anna M. Courtney Prin., gr. 3, 445 Merrimack	\$1,530
Elizabeth R. Connell, gr. 1, 19 Fort Hill Ave	1.480
Elizabeth R. Connell, gr. 1, 19 Fort Hill Ave Mary A. Hartley, Special, 358 Walker Gertrude B. McQuade, gr. 2, 225 Summer	1,480
	1,480
John Scott732 Stevens	
CDOCC CERTET (David (1))	
CROSS STREET (Bartlett) Cross Street, between Fletcher and Mt. Vernon Streets	
Ida J. Clarke, Prin-, gr. 3, 96 Grove	\$1,530
Anna T. Coburn, gr. 2, 39 Arlington.	1,480
Anna T. Coburn, gr. 2, 39 Arlington Katherine E. Kelly, gr. 1, 100 Canton Alice F. Seeton, gr. 1, 159 Mammoth Rd	1,480 1,480
Lamiton	1,100
William H. Kennedy73 Fletcher	
DOVER STREET (Morey)	
Dover Street, between Middlesex and Grove Streets	\$1,530
Dover Street, between Middlesex and Grove Streets	1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut Clementine H. Bowers, gr. 2, 60 Loring Bertha Gardner, gr. 1, 32 Robbins	
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut Clementine H. Bowers, gr. 2, 60 Loring Bertha Gardner, gr. 1, 32 Robbins	1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,480 1,480 \$1,530 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,530 1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,530 1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,530 1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,530 1,480 1,480 1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,530 1,480 1,480 1,480 1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,530 1,480 1,480 1,480 1,480
Dover Street, between Middlesex and Grove Streets Clara B. Horne, Prin., gr. 3, 106 Chestnut	\$1,530 1,480 1,480 1,480 1,480 1,480

GRAND STREET (Lincoln) Marion E. Greene, Prin., gr. 3, 405 Westford	\$1,530 1,480 1,480
Ruth Crowell, gr. 1, 69 Fort Hill Ave. Mary G. Dudley, gr. 2, 126 Coburn. Blanche E. Marshall, gr. 1, 445 Merrimack. Martha Rogers, gr. 3, 131 Cumberland Road.	\$1,480 1,080 1,480 1,480
KIRK STREET (Green) Eliza A. Davis, Prin., gr. 3, 2, 1, 100 Canton	\$1,530
LAKEVIEW AVENUE (Greenhalge) Lakeview Avenue Margaret J. McCluskey, Prin., gr. 3, 246 Methuen Anna F. Joyce, gr. 1, 82 Eleventh Katharine P. O'Brian, gr. 2, 28 West Adams. Janitor Joseph F. Nephen	1,530
LAURA LEE (Washington) Plain and Powell Streets Flora H. Sprague, Prin., gr. 3, 110 Branch Sara M. Dean, gr. 1, 2, 14 Belmont Lena M. Robinson, gr. 3, 2, 68 So. Walker Elizabeth H. Seede, gr. 1, 24 Warwick Lilla M. Stanley, gr. 2, 2 Horn Laniter	\$1,580 1,480 1,480 1,480 1,480
William J. Hunt	\$1,530 1,240
LONDON STREET (Butler) London and Autumn Streets Elizabeth R. Maguire, Prin., gr. 3, 53 Nesmith	\$1,530 1,480 1,480

LYON STREET (Butler)	
Lyon and Central Streets	
Kate F. Murphy, Prin., gr. 3 and 2, 870 Gorham	\$1,530
Katherine C. Early, gr. 1, 2, 23 Oak	1,480
Mary J. McCarry, gr. 1, 2, 1600 Gorham	1,480
John J. Manchester47 Hurd	
MIDDLESEX VILLAGE (Morey) Middlesex and Cornell Streets	
Harriet F. Wakefield, Prin., gr. 5, 6. 12 Warwick	\$1,530
Gertrude E. Dane, gr. 1 and 2, 222 Gibson	1,480
	1,480
Janitor	
P. Henry Driscoll16 Edwards	
PAWTUCKET PRIMARY	
(In Pawtucket School)	
Eugenia L. Hogan, gr. 3, 106 Avon	1,480
Maude M. Hardy, gr. 2, 236 Pawtucket	1,480
Wary E. Gordon, gr. 1, 61 Loring	1,000
PINE STREET (Morey)	
Pine and Gibson Streets	
Carrie J. Bailey, Prin., gr. 3, 56 Loring	\$1,530
Carrie J. Bailey, Prin., gr. 3, 56 Loring Helen D. Swain gr. 1, 418 Walker Grace I. Washburn, gr. 2, 390 Walker	1,480 1,480
	1,400
Joseph M. Hunt169 Broadway	
POND STREET (Moody)	
Pond and High Streets, Belvidere	d1 52 0
Adelaide Crowley, Prin., gr. 1, 2, 115 Fort Hill Ave *Maude E. Green, gr. 1, 238 E. Merrimack Mary I. Halloran, gr. 2, 546 E. Merrimack **Alice E. Ramsay, gr. 3, 21 Myrtle	\$1,53 0 ; 1,480
Mary I Halloran gr. 2 546 F. Merrimack	1,480
**Alice E. Ramsay, gr. 3, 21 Myrtle	1,480
Koom in riigh Street School,	
**Room in Moody School. Janitor	
Timothy F. Harrington156 Andover	
POWELL STREET (Morey)	
Powell Street, near Liberty	
	\$1,530
Viola A. Hamblett, Prin., gr. 1, 18 So. Walker Ellen J. Piper, gr. 3, 2, 55 Norcross	1,480
Lanitor	
James A. Buckley190 High	
RIVERSIDE	
(In Riverside School)	¢1 490
Charlotte O. Lowe gr. 1, 2, No. Chelmsford Etta M. Smith, gr. 2, 3, 1118 Lawrence	\$1,480 1,480
, 0 , . ,	

SYCAMORE STREET (Moody)	
Florence E. Rowell, Prin., gr. 3, 2, 65 Huntington Elizabeth B. Dame, gr, 2, 1, 3 Parkview Ave	1,530
Lawitor	1,480
Dennis A. Harrington495 High	
TENTH STREET (Varnum) Cor. Tenth and Varnum Streets	
Mary F. Beane, Prin., gr. 3, 212 Tenth	\$1,530
Alice M. French, 21 May	1,480 1,480
Alice A. Holtham, gr. 1, 1107 Bridge Fannie H. Murphy, gr 2, 42 Twelfth	1,480
Winfield S. Cross55 Seventh	
Winneld S. Cross55 Seventh	
WASHINGTON	
(In Washington School)	\$1,240
Mary V. Coughlin, gr. 1, 15 Cross	1,480
Alberta M. McQuesten, gr. 2, 1, 118 D	1,160
WEED STREET (Butler)	1
Lilla M. McEvoy, Prin., gr. 2, 3, 210 Pawtucket	1,530
Temporary Assignment Grade 1	
John N. Palm369 Lawrence	
WEST SIXTH STREET (Varnum)	
West Sixth Street, between Coburn and Jewett Streets	
Stella I. Allen, Prin., gr. 3, 115 Third	\$1,530
Elizabeth F. Lamere, gr. 2, 281 E. Merrimack	1,480
Elizabeth F. Lamere, gr. 2, 281 E. Merrimack	1,480 1,480
I*,	·
Adam McElroy	
WORTHEN STREET (Green)	
Worthen Street, between Market and Broadway	#1 520
Esther V. Green, Prin., gr. 2, 434 Westford	\$1,530 1,480
Mary E. Meehan, gr. 1, 228 Worthen	1,480
Charles E. Clark11 Carter	
KINDERGARTENS	
AGAWAM STREET (In Agawam Street Primary)	
Sarah G. Sparks, Prin. 59 Elm	\$1,240
	<i>p</i> 1,510
BARTLETT	
(In Bartlettt School) Helen W. Noyes, Prin., 192 Butman Rd	\$1.100
Evelyn L. Staples, 393 Wilder	1,120

CENTRAL STREET (In Central Street Primary) CHARLES STREET (In Colburn Primary)

(In Colourn Primary)	
Mabel D. Nickerson, Prin., 125 Clark Road	
S. Alice Knapp, 305 E. Merrimack	1,180
DOVER STREET	
(In Dover Street Primary)	
Elizabeth A. Wilson, Prin., 15 So. Canton	\$1,240
$\overline{FRANKLIN}$	
(In Franklin Primary)	
N. Grace Taylor, Prin., 11 Ware Dorothy Farnsworth, 67 Bellevue	\$1,240
Dolothy Tansworth, 67 Believae	1,000
HOW ARD STREET	
(In Howard Street Primary)	
Gertrude A. Roberts, Prin., Chelmsford, Mass., P. O. Box No. 61	\$1,240 1,000
	,
LAKEVIEW AVVENUE	
(In Lakeview Avenue Primary)	41.040
Celina L. Lalime, Prin., 28 Flemings	\$1,240 1,000
· · · · · · · · · · · · · · · · · · ·	1,000
LAURA LEE	
(In Laura Lee Primary)	
Katharine M. Crowley, Prin., 115 Fort Hill Ave	\$1,240 1,120
· · · · · · · · · · · · · · · · · · ·	1,120
MOODY	
(In High Street Primary)	
Marietta King, Prin., 205 Stackpole	\$1,240
PAWTUCKET	
(Mammoth Road)	
Hortense Tabor, Prin., 82 Riverside	\$1,240
Helen L. Eveleth, Thorndike	1,000
Thomas J. McGee83 White	
1 nomas J. Wicesee	
PINE STREET	
(In Pine Street Primary)	
Louie I. Smith Prin., 549 Westford	\$1,240
Hortense M. Lamere, 13 Ralph	1,050
V A RNUM (In Varnum School)	
	\$1,240:
Ella M. Penn, Prin., 31 Sanders Ave	1,180
1	

WEED STREET	
Gertrude B. Crowley, Prin., 115 Fort Hill Ave	\$1,240
CONTINUATION SCHOOL	
HIGH SCHOOL ANNEX	
Thomas A. Ginty, Director, 117 Andover	\$2,820
Mary E. King, Clerk, 22 Walnut	1,000 1,800
Eugene I. Donovan, Academic Subjects, 809 Lawrence.	1,800
Eugene J. Donovan, Academic Subjects, 809 Lawrence	1,680
Charles D. Foley, Academic Subjects, 14 Ellsworth	1,800 1,800
M. Katherine Gallagher, Domestic Science, 300 Wilder	1,680
William G. Hannafin, Instructor Machine Shop Practice, 15 Sargent	1,800
Margaret A. Harrington, Teacher of Dressmaking and Millinery, 211	1,600
Christian Anna T. McCarron, Academic Subjects, 228 High Katherine C. O'Neill, Academic Subjects, 175 Walker	1,680
Katherine C. O'Neill, Academic Subjects, 175 Walker	1,680
William J. A. Reardon, Academic Subjects, 16 Marginal Elizabeth J. Regan, Teacher of Dressmaking, 282 Concord	1,800 1,680
Raymond W. Slater, Instructor in Woodworking Department, 1939 Mid-	1,000
dlesex	1,800
Major Colby T. Kttredge, Physical Director, 48 So. Walker	500
VOCATIONAL SCHOOL	
MANN SCHOOL BUILDING, BROADWAY	
Thomas F. Fisher, Director, 121 Livingston Ave	\$2,900
Margaret E. McCann, 196 Aiken Ave	1,000
Sub-Master and Head of Machine Department	1,000
Maurice A. Butterfield, 12 June	2,300
George H. Dozois, 11 Spaulding	1,900
Teacher of Mechanical Drawing	
James T. Gearon, Y. M. C. A.	1,700
Iohn I Gildee 112 D	2,000
James T. Gearon, Y. M. C. A. Head of Auto Department John J. Gildee, 112 D Teacher of Academics	ŕ
John H. Gillick, 18 Fred	2,000
William B. Hilliard, 38 So. Loring	1,700
Head of Flectrical Department	
Chester W. McDonald, 22 Bellevue Instructor of Mechanical Drawing and Academics	2,100
Andrew J. Moynahan (Temp.), 19 Hampshire	1,700
Electrical Instructor	
Ernest A. Shafter, 373 Beacon	1,800
Harry M. Tabor (Temp.), 251 E. Merrimack	1,800
Instructor of Machine Shop Practice	1.000
Charles J. Welsh, 77 Billings	1,900
Fred F. Wiggin, Chelmsford, Mass	2,000
Janitor George P. Daley 98 Walker	

Thomas F. Crowley, 79 West Fourth	1,550
GIRLS' DEPARTMENT	
Morrill School Building	
Tel. 5411	44.000
Esther M. Downing, Department Head, 434 Westford	\$1,800
Ruberta M. Bramhall, 84 Tenth	1,540
Agnes R. Burns, 220 West Sixth	1,300
Flora Common, 109 Beech Teacher of Academics	1,100
Mary H. Mehan, Bridmar Chambers, Fletcher St	1,360
Heod of Dressmaking Department Anna M. O'Day, 599 Central	1,420
Teacher of Cooking Edna J. Rundquist (Temp.), 16 Belmont	·
Theodore Towner	1,100
Theodore Towner	
SPECIAL TEACHERS	
Musical Director	
Frederick O. Blunt, 392 Chelmsford	\$2,500
Assistants in Music Jessie M. Hagar, 418 Walker Gertrude F. O'Brien, 91 Riverside	1,800 1,550
Supervisors of Drawing	
Helene R. Abels, 43 Nicollet	1,550
 	1,550
Teachers of Sewing Ida J. Flint, Teaching of Sewing, 200 Liberty	i,640
Louise H. McOsker, 209 Stackpole	1,240
Louise H. McOsker, 209 Stackpole Esther M. Owens, 4 Belmont	1,460 1,400
Manual Training	,
Ralph A. Luce, Chelmsford Mass., R. F. D. No. 1	2,000
Arthur Lundwall, 619 Stevens	1,800
Phiysical Director in Elementary Schools	1 400
Major Walter R. Jeyes, 67 Gates	1,400
Assistant to Physical Director	1 200
Nellie D. Horner, 353 Westford	1,300
Fred Albinsin, 8 Newbury	500 1,000
Albert D. Mack, 20 Wentworth Ave	500 500
James 11. Diamey, Jot Lawience	200

Dental Clinic (In Worthen Street School)	
Dr. E. A. Kent, 11 Harris Ave	1,000
Assistant to Dentist	(00
Eva M. Lantagne, 14 Albion	600
SCHOOL PHYSICIANS	
Giving Names of Schools Supervised	
C. Stoyle Baker, M. D., 77 Mansur	\$ 500
John F. Boyle, M. D., 32 WhippleButler, Lyon St., Carter St., Weed St., London St. and Central St.	400
lames Cassidy M 1 111 Riverside	400
Green, Worthen St., Kirk St., Cabot St., Franklin, Cross St., Vocational—Girls' Department	
Winited W Wools-Devine W D // Parkview Ave	400
Pawtucket, Geenhalge and Lexington Ave. George O. Lavallee, M. D., 790 Merrimack	
George O. Lavallee, M. D., 790 Merrimack	400
Charles M. Roughan, M. D. 105 Merrill Ave.	400
Moody, Riverside, Pond St., Agawam St., Sycamore St and Vocational—Boys' Department	
Emma Y. Slaughter, M. D., 545 School	400
Emma Y. Slaughter, M. D., 545 School	400
Forster H. Smith, M. D., West Meadow Road	400
Lincoln, Laura Lee, Grand St., Eliot, Howard St. and Powell St. Edward O. Tabor, M. D., 131 Methuen	400
Morey, Washington and Pine St.	
SCHOOL NURSES	4 000
Mary Etta Frazier 54 Starbird	1,200 1,200
Marietta M. Dwyer, 23 Sidney	1,200
Anna J. O'Ďwyer, 148 Midland	1,200
ABSENT ON LEAVE	0.1 1
Queenie A. Manchester, High School. Mary E. Quirbach, High	School
PERMANENT SUBSTITUTES	
Alice K. Dinneen, 25 Oliver Catherine G. Boddy, 51 Starbird	
Natalie H. McQuade, 102 Cross Mary R. Maguire, 62 Gerrish A	ve.,
Teresa G. Lew. 89 Mt. Hope Marion E. McMaster, 56 Rolfe	
Hazel Stevens, High St., Chelmsford Ethel D. Gordon, 61 Loring Helen M. Crowley, 254 Parkview Ave. Helen A. Castles, 154 Avon	
Helen M. Crowley, 254 Parkview Ave. Helen A. Castles, 154 Avon Mildred M. Clevette, 225 Summer Margaret G. Condon, 81 Mt. Ver	non
Mildred M. Clevette, 225 Summer Alice B. Ingham, 62 Robbins Margaret G. Condon, 81 Mt. Ver Henrietta G. Condon, 96 Midland	i
Mildred M. Clevette, 225 Summer Alice B. Ingham, 62 Robbins Helen C. O'Hare, 203 Pleasant V. May Carlson, 105 Hoyt Ave. Margaret G. Condon, 81 Mt. Ver Henrietta G. Condon, 96 Midland Georgianna P. Keith, 70 Third Jessie M. Agnew, West Chelmsfo	1
M. Alice Murphy, 74 Harris Ave. Jessie M. Agnew, West Chelmston Irene H. Dowd, 1354 Gorham	rd
Kathryn H. Flahavan, 27 Maple Ave. Alice M. McDermott, 12 Courtla Agnes A. McGowan, 36 Varney	nd
Agnes A. McGowan, 36 Varney	

UNASSIGNED JANITORS

Patrick	H.	Kelley	3	1 Claire
George	Mo	Williams	47	Agawam

EVENING SCHOOLS

EVENING HIGH SCHOOL

Henry H. Harris, Principal
Orton E. Beach
Elmer G. Brennon
M. Mabel Cassidy
Josephine A. Charbonneau
Albertine Bernier Stenography II Elmer G. Brennon Commercial Arithmetic, Algebra and Geometry M. Mabel Cassidy Spelling, Ancient and American History Josephine A. Charbonneau Stenography I Alice L. Cluin Elementary, English Alice L. Cluin Stenography I 130 Fort Hill Ave.
James F. Conway Elementary English James F. Conway Physics and Chemistry Grace D. Donovan 256 Branch
Adayanced English and Adayanced Shalling
Ruth L. Eaton
Mary A. Egan 29 Cady
Margaret Garvey
Frank C. Gilbert
Peter J. Gulesian Blanchard Ave., Billerica Manual Training and Mechanical Drawing
Elizabeth Irish
Raymond J. Kenney
Elizabeth Irish Latin and Lierature Raymond J. Kenney Steongraphy I Charles A. King Rochbesting II
Charles A. King 4 Astor Bookkeeping II 76 June Albert D. Mack 70 June 70 June 70 June 71 June 72 Wentworth Ave.
Albert D. Mack
Head of Commercial Department Konbbeening III
John D. McKinley 474 Beacon Loretto A. McManmon 57 Second Ave.
Commercial Geography, Advanced Grammar and Civil Government
Addie B. Merrill
Addie B. Merrill
Addie B. Merrill

Elementary Arithmetic
Flora A. Owen
Lewis A. Putnam
Flora A. Owen Typewriting 42 Huntington Lewis A. Putnam 19 Eighth Ave. Stenography III 116 School Advanced Arithmetic and Greek 164 Pine
Charles J. Rodgers
Ruth L. Sawyer
Commercial Arithmetic, Algebra and Advanced Grammar
Charles E. Seede
Margaret L. Seeton
James A. Shanley
M. Beatrice Shea
Alice O. Stickney
Morton A. Sturtevant
M. Beatrice Shea Penmanship Alice O. Stickney Morton A. Sturtevant Business Correspondence and Spelling Sarah Taff Business Correspondence Penmanship 267 Welker Penmanship 599 School Rhetoric and Graduation English 50 Rea Business Correspondence and Spelling 235 Stackpole
Edward J. Thompson
Physiology, Spanish and Advanced Arithmetic
Mary E. Tobin
The state of the s
ELEMENTARY EVENING SCHOOLS
ELEMENTARY EVENING SCHOOLS
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal 260 High Mary M. Cowell 22 London Margaret C. Fox 8 Eddy Gertrude A. Hession 178 Perry
ELEMENTARY EVENING SCHOOLS COLBURN
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal .260 High Mary M. Cowell .22 London Margaret C. Fox .8 Eddy Gertrude A. Hession .178 Perry Leona M. Small .46 Whitney Ave. Bride T. Sweeney .138 Pleasant
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal .260 High Mary M. Cowell .22 London Margaret C. Fox .8 Eddy Gertrude A. Hession .178 Perry Leona M. Small .46 Whitney Ave. Bride T. Sweeney .138 Pleasant EDSON D. Murray Cummings, Principal .64 Temple
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal. .260 High Mary M. Cowell 22 London Margaret C. Fox .8 Eddy Gertrude A. Hession .178 Perry Leona M. Small .46 Whitney Ave. Bride T. Sweeney .138 Pleasant EDSON D. Murray Cummings, Principal. .64 Temple Hazel Gardner .15 Columbus Ave
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal .260 High Mary M. Cowell .22 London Margaret C. Fox .8 Eddy Gertrude A. Hession .178 Perry Leona M. Small .46 Whitney Ave. Bride T. Sweeney .138 Pleasant EDSON D. Murray Cummings, Principal .64 Temple Hazel Gardner .15 Columbus Ave Marietta G. Gormley .22 Lyon Henrietta I. Grady .39 Lundberg
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal .260 High Mary M. Cowell .22 London Margaret C. Fox .8 Eddy Gertrude A. Hession .178 Perry Leona M. Small .46 Whitney Ave. Bride T. Sweeney .138 Pleasant EDSON D. Murray Cummings, Principal .64 Temple Hazel Gardner .15 Columbus Ave Marietta G. Gormley .22 Lyon Henrietta I. Grady .39 Lundberg Mary E. Lane .12 Ellsworth
ELEMENTARY EVENING SCHOOLS COLBURN Helen M. Shean, Principal .260 High Mary M. Cowell .22 London Margaret C. Fox .8 Eddy Gertrude A. Hession .178 Perry Leona M. Small .46 Whitney Ave. Bride T. Sweeney .138 Pleasant EDSON D. Murray Cummings, Principal .64 Temple Hazel Gardner .15 Columbus Ave Marietta G. Gormley .22 Lyon Henrietta I. Grady .39 Lundberg
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Mary A. Fay123 ThirdMae A. Hogan399 WalkerElizabeth G. Lawler260 HighMary R. Marren86 RolfeAlice A. Masterson14 Oakiand
Elizabeth Provencher 22 West Bowers Julia B. Riordan 27 Woodward Ave.
ROOMS IN CABOT STREET SCHOOL (For Girls Only) Charlotte O. Lowe
Ellen F. Lynch 2010 Middlesex 2010 Middlesex 2010 School
William W. Dennett, Principal
EVENING VOCATIONAL SCHOOL MEN'S DEPT.
MEN'S DEPT. Thomas A. Fisher, Director
George H. Dozois 11 Spaulding John J. Gildee 112 D
John Briscoe Dracut, Mass. Fred F. Wiggin Chelmsford, Mass.
Chester W. McDonald Electrical Department 22 Bellevue Engineering Depart Messer
Edwin C. Wells Dracut, Mass. Daniel C. Callahan 22 Second Ave.
Maurice A. Butterfield, Dept. Head
Michael Donahue
Guy Whitney
GIRLS DEPT. Practical Arts Esther M. Downing, Dept. Head
Gabrielle Paquin, Clerk
Ruberta Bramhall, Dept. Head
Anna Dennett

Helen King
Katherine King
Mahel Metcalf 93 Vernor
Modwena Rowlandson
Edne I Rundquiet 16 Belmont
Dresson abing Department
Anna M. O'Day, Dept. Head599 Central
Caro Allan
Caro Alian 470 varioum Ave.
Della Barnes
Annie Boyle
Mary V. Bradley
Agnes R. Burns
Katherine Burns
Carrie Cardell
Mary E. Durant 209 Summer Nora Early 256 E. Merrimack
Nora Early
Madeline Hartigan
Fleanor Kiylan 73 Moore
Katherine McDonald 5 Varney Margaret McGurn 110 South Walker
Margaret McGurn 110 South Walker
Minnie Moran
Orina B. Mongrain1050 Bridge
Mary F. Rourke
Nellie Rourke 33 Marion
Nelle Rourke 33 Marion
Helen Rouse
Elzina Secord
Marguerite M. Turgeon
Rose Ward
Helen Zollinger
Millinery
Mary H. Mehan, Dept. HeadBridmar Chambers, Fletcher St.
Cordelia Barrows
Hilda Benoit
Evangeline Bertrand Dracut, Mass.
Mary Devine 231 School
Mary Devine
Evelyn Hebert 18 Third
Lena Gendron
Katherine Keves
Katherine Keyes
Katherine Keyes62 Pine Mae Kelly101 Pleasant Lena Lowrey43 Jewett
Katherine Keyes
Katherine Keyes
Katherine Keyes
Katherine Keyes62 Pine Mae Kelly101 Pleasant Lena Lowrey43 Jewett
Katherine Keyes 62 Pine Mae Kelly 101 Pleasant Lena Lowrey 43 Jewett Arthemise Hotin 709 Merrimack Agnes Weston 137 Stackpole Marietta Dwyer 23 Sidney
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jewett Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jewett Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jewett Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jewett Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jeweth Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 High School Head Master \$4,300
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jewett Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 Head Master \$4,300 Sub-Masters 3,400
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jeweth Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 Head Master \$4,300 Sub-Masters 3,400 Junior Masters 3,000
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jeweth Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 Head Master \$4,300 Sub-Masters 3,400 Junior Masters 3,000 Junior Sub-Masters 2,700
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jeweth Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 Head Master \$4,300 Sub-Masters 3,400 Junior Masters 3,000 Junior Sub-Masters 2,700
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jewett Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Home Nursing Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 Head Master \$4,300 Sub-Masters 3,400 Junior Masters 3,000 Junior Sub-Masters 2,700 Men Teachers \$1,700 to \$2,500
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jewett Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Home Nursing Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 Head Master \$4,300 Sub-Masters 3,400 Junior Masters 3,000 Junior Sub-Masters 2,700 Men Teachers \$1,700 to \$2,500
Katherine Keyes .62 Pine Mae Kelly .101 Pleasant Lena Lowrey .43 Jeweth Arthemise Hotin .709 Merrimack Agnes Weston .137 Stackpole Marietta Dwyer .23 Sidney SALARY SCHEDULE In Effect From January 1, 1921 Head Master \$4,300 Sub-Masters 3,400 Junior Masters 3,000 Junior Sub-Masters 2,700

00
Women Teachers \$1,400 to \$2,000 First year, 1,400; second year, \$1,500; third year, \$1,600; fourth year, \$1,700;
fifth year, \$1,800; sixth year, \$1,900; seventh year, \$2,000; department head, \$100
in excess of schedule salary. Elementary Schools
Masters (Maximum reached in seventh year)
Teachers
First year, \$1,200; second year, \$1,280; third year, \$1,360; fourth year, \$1,440; fifth year, \$1,520; sixth year, \$1,600; seventh year, \$1,700. Principals of Primary Schools
Primary Principals \$50 above schedule.
Principal of Laura Lee School \$100 above schedule. Supervisor of Primary grades, \$2,100.
Kindergartens Principals \$1,500
Assistants 1,200 to 1,440
First year, \$1,200; second year, \$1,280; third year, \$1,360; fourth year, \$1,440.
Men, per day
Women, per day
Kindergartens, per day 3.00 Special Teachers
Drawing\$1,550
Music 1,550 to 2,500
Sewing
Instructors in Open Air and Sight Saving Classes to receive \$150 above
schedule.
Instructors in Domestic Science in Elementary Schools to receive \$100 above
schedule.
The salary of the Director of the Vocational School to be \$3300. The salary of Margaret McCann, clerk in the Vocational School to be at the
rate of \$1200 per year.
Vocational School Women Teachers \$1,200 to \$1,800
First year, \$1,200; second year, \$1,300; third year, \$1,400; fourth year,
\$1,500; fifth year, \$1,600; sixth year, \$1,700; seventh year, \$1,800. Those in Supervisory positions to receive \$100 above schedule
0 . 0 1 1
Continuation School
First year, \$1,000; second year, \$1,100; third year, \$1,200. Men Teachers
First year, \$1,600; second year, \$1,700; third year, 1,800; fourth year, \$1,900; fifth year, \$2,000; sixth year, \$2,100; seventh year, \$2,200. Women Teachers \$1,300 to \$1,850
First year, \$1,300; second year, \$1,400; third year, \$1,500; fourth year, \$1,600; fifth year, \$1,700; sixth year, \$1,800; seventh year, \$1,850.
Instructors in Manual Training
First year, \$1,800; second year, \$1,900; third year, \$2,000; fourth year, \$2,100; fifth year, \$2,200.

Part time supervisors in Penmanship in Elementary Schools to receive \$500 pear year.

Full time supervisors in Penmanship in Elementary Schools to receive \$200

above schedule.

Pay of permanent substitutes in Elementary Schools and temporary teachers in the High, Vocational and Continuation Schools to be at the rate of \$6.00 per day.

TEACHERS' CERTIFICATES

Granted Since January 1, 1920

Granted Binee January 1, 1720	
First Grade	
Eugene J. Donovan, Holy Cross, 1915	Lowell, Mass.
Joseph A. McAvinnue, Boston College, 1919	Lowell, Mass.
Second Grade	
Mildred Beals, Smith College, 1919	Lowell, Mass.
Mary E. Harrigan, St. Elizabeth's, 1919	Lowell, Mass.
Anne V. Reynolds, St. Elizabeth's, 1919	Lowell, Mass.
Third Grade	
Mary V. Coughlin	Framingham Normal
Katherine L. Farley	Lowell Normal
Margaret M. Garvey	Lowell Normal
Theresa R. Glynn	Lowell Normal
Margaret C. Gookin	Lowell Normal
Mary E. Gordon	Lowell Normal
M. Grace McCue	Lowell Normal
Mary A. McKeon	Lowell Normal
Katherine M. O'Donnell	Lowell Normal
Mary T. O'Neill	Lowell Normal
Fourth Grade	
Dorothy Farnsworth, Perry Kindergarten, 1920	Lowell, Mass.

Authorized Text Books

High and Elementary Schools

Adopted by the School Committee of Lowell, Massachusetts, June, 1913

HIGH SCHOOL

ENGLISH

Adopted

Rhetoric Enlarged Practice Book The Odyssey Buehler Talcs from Shakespeare Last of the Mohicans House of Seven Gables Twice Told Tales Illiad Illiad Silas Marner Julius Caesar Merchant of Venice Macheth Lady of the Lake Ivanhoe Life of Johnson Sir Roger De Coverley L'Allegro and Il Penscroso Speech on Conciliation with America Idvlls of the King Vision of Sir Launfal Ancient Mariner Chaucer to Arnold Essays of Elia Tales of a Wayside Inn Grandmother's Story

Rhetoric

Handbook of Composition

Self-Cultivation in English

Essays on Clive and Hastings

Exercises in English

Life of Goldsmith

Tales of a Traveler

Palamon and Arcite

Schrab and Rustum

She Stoops to Conquer

Selected Essays

Twelfth Night

King Lear

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(5) Bryce's Fables from Afar	
(6) Bryce's That's Why Stories	Newson & Co.
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First Principles of Chemisry (Revised Edition). Allyn and Bacc.

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67 67 67 67 67 67 67 67 67 68 68	1922	49	72	13 13 13 14 14 17 17 17 17 17 17 17 17 17 17 17 17 17	243	116	921 2945 1922 72 243	6103
868 871 871 871 871 871 871 871 871 871 87		25	76	100 100 100 100 100 100 100 100 100 100	247	167	722 2999 1937 1937 247	6002
142 260 126 126 117 117 1143 1182 109 109 109 109 109 109 109 109 109 109	4543	56 142	198	23822244 3388233825	620	240	1643 6354 4543 198 620	13358
07 1137 060 060 060 060 060 060 060 060 060 06	2224	27	8	300 110 200 200 201 112 123 84 44 144 8	298	79	934 3191 2224 89 298	6736
123 123 123 100 100 100 110 104 104 104 104 104 104	2319	80	109	112 224 444 225 225 225 225 225 225 225	322	161	709 3163 2319 109 322	6622
Lakeview Ave. Chelmsford St. Central and Lyon St. Mammoth Road Pine St. Powel St. Powel St. Powel St. Sycamore St. Forth St. Sycamore St. Forth St. Gorham and Weed St. West Sixth St.	Total	Lexington Ave	Total	In Agawam Primary In Cross St. Primary In Central St. Primary In Colbum Primary In Dover St. Primary In Dover St. Primary In Howard St. Annex In Lateview Ave. Primary In Latura Lee Primary In Highs St. Annex Mammoth Road In Pine St. Primary In Vernum School In Weed St. Primary	Total	Broadway and Common St	High Grammar Primary Mixed Kindergarten	Total
Lakeview Ave. Laura Lee Laura Lee London St. Lyon St. Lyon St. Lyon St. Powel St. Powel St. Powel St. Powel St. Riverside. Sycamore St. Tenth St. Tenth St. Washington Weed St. West Sixth St.	Mixed	Lexington Ave	Kindergarten	Agawam St. Bartlett. Central St. Central St. Dover St. Dover St. Howard St. Lakeview Ave. Lakeview Ave. Moody Moody Parturette Pine St. Varnum Weed St.		Vocational	Summary	

*Schools closed in September, 1920



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CITY OF LOWELL

MASSACHUSETTS

EIGHTY-FIFTH ANNUAL REPORT

OF THE

CITY AUDITOR



FOR THE FINANCIAL YEAR

1920



Municipal Council

1920

MAYOR
PERRY D. THOMPSON
Commissioner Public Safety

ALDERMAN

JAMES E. DONNELLY

Commissioner Finance

ALDERMAN
DENNIS A. MURPHY
Commissioner Streets and Highways

ALDERMAN
GEORGE E. MARCHAND
Commissioner Property and Licenses

ALDERMAN

JOHN F. SALMON

Commissioner Fire and Water Department

CITY OF LOWELL

Lowell is situated at the confluence of the Merrimack and Concord Rivers. Was settled in 1653, called Chelmsford Grant. First Town Meeting in 1654.

Was originally a part of Chelmsford.

Owns its own water supply.

Incorporated as a Town in 1826.

Incorporated as a City in 1836.

Part of Tewksbury annexed in 1834, 1847, 1898, 1906.

Part of Dracut annexed in 1851, 1874, 1879.

Part of Chelmsford annexed in 1826, 1874.

Population, 112,759.

Has 219.63 miles of streets, 145.23 accepted, 74.40 unaccepted.

Has 127.43 miles of sewers, costing \$6,988,849.91.

Has an area of 14.1 square miles.

Assessed valuation 123,919,102,00 and 28,330 assessed polls.

Tax rate \$27.20 per \$1,000.00 per cent. of valuation 100.

Bonded indebtedness, \$4,547,685.00, sinking funds \$351,411.58.

City Hall and Memorial Building costing \$450,000.

School Department—58 day High School teachers, 277 day elementary school teachers, 39 evening High School teachers, 31 evening elementary school teachers, Americanization Classes teachers 17, Continuation Classes teachers 15.

Fire Department—172 officers and men, 168 fire alarm boxes, 1466 hydrants, 19 fire apparatus, (not including water tower).

Water Department—Date of construction, 1870 to 1873; high service, 1881; driven wells, 1893 to 1916.

Source of supply—Two hundred ten (210) driven wells in the valley of River Meadow Brook, and four hundred seventy-nine (479) driven wells at Pawtucket Boulevard.

Mode of supply—Pumping to reservoir and pumping direct. Filtered through coke and sand.

Daily capacity 14,000,000 gallons; 157.46 miles mains; reservoir capacity 5 days' supply; consumes 5,442.967 daily.

Park Department—149.255 acres of parks and playgrounds valued at \$703.419.00.

Has five National Banks, two Trust Companies.

Has eight Savings Banks.

Has three Co-operative Banks.

Has 16½ miles waterways.

Develops about 30,000 h. p. daily by means of $6\frac{1}{2}$ miles of canals which furnish power for manufacturing plants.

Has the largest Textile School.

Has more than 1000 manufacturing plants.

Auditor's Department

CITY OF LOWELL, MASSACHUSETTS

That the Auditor, with the exception of monthly bills approved by the Municipal Council, issue no warrant to pay any bill without THREE signatures of the Municipal Council.

All bills or claims for work performed must be presented to the DE-PARTMENT ORDERING SAME; those for supplies furnished and contracts must be presented to the PURCHASING AGENT.

All bills or claims must be received by the City on or before the FIRST day of the month.

All department receipts must be sent to the Purchasing Agent on or before the THIRD day of the month.

All bills or claims shall be presented to the Commissioner of the Department contracting the same on or before the THIRD day of each month.

All bills after approval by the Commissioner, shall be listed and sent to the Auditor's Department not later than the EIGHTH day, for final approval by the Municipal Council.

ALL BILLS OR OTHER CLAIMS, BEEORF THEY ARE FINALLY CERTIFIED BY THE AUDITOR OR PAID SHALL BE APPROVED BY THE MUNICIPAL COUNCIL.

Bills will be paid on the FIFTEENTH day of each month.

OFFICES IN THE CITY HALL ARE OPEN FROM 9 A. M. UNTIL 4 P. M. EXCEPT SATURDAY.

Auditing Department

To the Municipal Council of the City of Lowell,

Gentlemen:-

Pursuant to the provisions of law made and provided, hereinafter is submitted a report of the City Auditor of the City of Lowell, concerning all business transactions of the city during the fiscal year of 1920.

Respectfully,

J. JOSEPH HENNESSY, City Auditor.

SUMMARY OF ASSESSMENTS, ETC. IN THE YEAR 1920

Totals \$141,650.00	Totals \$ 856,765.37 2,513,834.20	\$3,370,599.57		12,112.46	\$3,524,362.03 84,990.00	3,439,372.03
	Supplementary \$ 3,053.88 81,60	\$ 3,135.48		1 in valuation	•	entary Taxes \$
	Taxes At Commitment \$ 853,711.49 2,513,752.60	\$3,367,464.09		and tax not included in valuation Valuation \$445,311.00 tax	or which warrants .00 each payable to	Balance represents Levy and Supplementary Taxes \$3,439,372.03
	Totals \$ 31,498,727.00 92,420,375.00	\$123,919,102.00		Non-resident bank val. and tax not included in valuation yroper \$445,311.00 tax	Total tax account is of polls 28330 at \$3	Balance represents
Number 27341 989 28330 at \$5.00	Valuations Supple, in December \$112,275.00 3,000.00	\$115,275.00	\$3,370,599.57 141,650.00	\$3,512,249.57	Total tax account for which warrants were issued Special: Total number of polls 28330 at \$3.00 each payable to state	
2 7	Property At Commitment 31,386,452.00 92,417,375.00	\$123,803,827.00	Total property tax	and propertyand	Spe	
Polls at committment Supplementary polls	Personal	Potals	Total property 1 Total assessmen	1920 total tax on polls and p		

\$2,968,650.00 113,777.62	\$2,854,872.38	322,489.46 130,781.10	3,308,142.94	3,422,146.09 12,112.46 5,113.48	3,439,372.03	\$3,524,362.03 25,405.45 3,209.55	\$3,552,977.03
City Appropriations	Net City Appropriations to raise \$298,480.00 State Tax 2,694.11 State Highway Tax 2,240.00 State Grade Crossings Tax 2,240.00 State Special Tax for Army and Navy Men 14,071.20 State Bay State Street Railway Tax 4,934.54 State Resolve for Imp. of Hale's Brook 69.61	Total for State \$322,489.46 County Tax	Total up to Overlay Overlay	Grand Total City Tax at Commitment	Total amount of Taxes in 1920 Period at \$3.00, State portion	Total amount for which warrants were issued on Taxes	Total amount of all for which warrants were issued

	Totals	\$14,336.40	6.527.50	18,758.56	3 50	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	113.51	13.85	40	120	
nents	Real	\$ 433.00	2.323.10	8,562.48							•
Net Abatements	Personal	\$ 2,963.40	1.492.40	4,919.08							
	Poll Tax	\$10,940.00	2.712.00	5,277.00							
	After Payment			\$ 265.20			\$ 1.69				
	Before Payment		\$ 96.20	2,743.80	\$ 5.04	\$ 5.04	14.35				\$ 3.50
Re-assessments	After Payment	\$ 10.00 955.72	352.20	1,180.93			\$ 1.69				
	Before Payment	\$14,336.40 465.59	6,677.00	21,767.56	\$ 8.63	5.04	129.55	\$ 13.85	.40	1.20	3.50
	Total Abatements	\$14,346.40 \$ 1,421.31	6,975.90	22,948.49	\$ 8.63	5.04	131.24	\$ 13.85	.40	1.20	3.50
	Vear	1917 1918	1919	1920 Street Sprinklin	1918	1919	1920 Moth Tax	1917	1918	1919	1920

The following figures pertain to the obtaining of the Municipal Debt for the year 1921.

Net valuations Abatements Deducted \$ 98,568,827.10 107,014,216.85 123,423,456.41	\$329,006,500.36
Amount of Abatements in Terms of Valuation \$ 370,297.90 \$ 301,546.15 \$ 495,645.59	\$1,167,489.64 ves limit of municipal de year 1921.
Net Property Ons Tax Abatements Rate per \$1000.00	3 years valuations \$1,167,489.64 \$329,006 Valuation abated Net 3 years valuation Average valuation 2½ per cent. of this average gives limit of municipal debt for 1921. Limit of municipal debt for the year 1921.
Total City Valuations \$ 98,939,125.00 107,315,763.00 123,919,102.00	\$330,173,990.00 1,167,489.64 329,006,500.36 109,668,833 \$2,741,720.82
1918 1919 1920	

BALANCE SHEET DECEMBER 31, 1920

$\mathbf{Dr}.$			Cr.
\$ 303,518.52	Cash		
1,069.64	Taxes 1915		
8,687.64	" 1916	•••••	
15,457.54	" 1918		
219,885.76	" 1919		
782,449.38	" 1920		-
1.60	Moth 1918		
285.30	" 1919		
847.55	" 1920		
14.55	Sprinkling 1915		
	" 1918	\$	1.19
3,071.30	" 1919		
7,102.36	" 1920	•••••	
	Overlay 1916		1,732.31
	" 1917		295.39
	" 1918		23,678.92
	1920		94,979.39
2,822.29	Tax Titles		
1,647.46	Sidewalk Assessment		
4,148.60	Sewer Assessment		
38,522.68	Department Accts. Rec		
4,881.21	Cemetery Accts. Rec		
7,508.04	Water Accts. Rec		
.,	Tax Revenue Loans		,200,000.00
58,757.54	Revenue Appropriation		
,	Cemetery Revenue		4,881.21
	Water Revenue		7,508.04
	Other Revenue		41,506.37
/	Premiums		17,386.09
	Sidewalk Revenue		1,647.46
	Sewer Revenue		4,148.60
10,249.36	Excise Tax		
\$1,470,928.32		\$1.	470,928.32
	Non-Revenue	,	
\$ 505,740.80	Cash		015 740 00
** *** ***	Appropriations		,015,740.80
\$1,510,000.00	Loans Authorized		
\$2,015,740.80		\$2	,015,740.80

CITY OF LOWELL, DEC. 31, 1920

THE MUNICIPAL DEBT

THE TICHTER DEDI	
Gross Debt	
Total Ordinary City Debt	\$4,176,935.00
Total Water Works Debt	370,750.00
Total Tax Revenue Loans	1,200,000.00
Gross Debt December 31, 1920	\$5,747,685.00
Net City Debt	
Total Ordinary Debt, January 1, 1920	\$3,499,085.00
Sinking Fund	351,411.58
Total	\$3,147,673.42
Payments on Ordinary Debt 1920	344,150.00
Total	\$2,803,523.42
Sinking Fund Payment, City Hall & Memorial Building	450,000,00
Total	\$2,353,523.42
Loans 1920	1,472,000.00
Net Debt	\$3,825,523.42
Net Water Debt	
Total Ordinary Water Debt, January 1, 1920	\$1,418,750.00
Payments 1920	63,000.00
	41.255 850 00
Total	\$1,355,750.00
Sinking Fund Payment Water Loan	1,000,000.00
Total	\$ 355,750.00
Loans 1920	15,000.00
. Total	
Total Net City Water Debt December 31, 19	20
City	\$3,825,523.42
Water	370,750.00
Total	\$4,196,273.42

INDEBTEDNESS

December 31, 1920

Sinking Funds Cash and Securities	Funded Debt	
High School Fund	High School Loan payable 1921 New Schoolhouse Loan payable 1926 General City 4% Loan 4½% 4½% 4¾½% 5% 5½% 6% 6% Nesmith Fund 1870 City paying 6 per cent. Carney Medal Fund	\$ 150,000.00 200,000.00 1,285,135.00 79,800.00 1,279,550.00 405,000.00 244,000.00 28,000.00 25,000.00 1,000.00
\$4,547,685.00		\$4,547,685.00
TRUST	FUNDS	
Cash and Securities \$ 302,860.08 *Cash Used by City in 1870, and now paying 6 per cent	Carney Medal Fund Hapgood Wright Fund John Davis Library Fd. Jonathan Tyler Fund Thos. Nesmith Fund Thos. Nesmith Fund Cemetery Perpetual Care Unpaid Debt and Interest Joseph Henry Stackpole Fund	\$ 200.00 13,255.5; 100,727.4; 10,000.00 25,000.01 1,000.00 151,719.4; 26,357.50
\$ 329,260.08		\$ 329,260.08
Prop	erty	
Dr. \$2,029,376.67 Water Works 2,094,890.00 Schools 2,751,247.42 General Departments City of Lowell (Balancir	ng account)	° Cr. \$6,875,514.0
\$6,875,514.09		\$6,875,514.0

DEBT LIMIT, 1920

Total Ordinary Debt, Jan. 1, 1920	\$3,499,085.00 1,418,750.00 800,000.00
Total Gross Debt, Jan. 1, 1920	\$5,717,835.00
Outside Limit of Indebtedness Deduct by Legislation outside limit of indebtedness: Water \$1,418,750.00 Special Legislation \$1,195,000.00	
Tax Revenue Loan	\$3,413,750.00
City Debt as relates to limit of indebtedness	\$2,304,085.00
Limit of Municipal Debt for 1920 City Debt as relates to Limit Distance from Limit Jan. 1, 1920 Distance from Limit Dec. 1, 1920	\$2,469,161.08 2,304,085.00 165,076.08 137,226.08
Borrowing limit year 1920	509,226.08
1920 Loans	00,,220,00
Sewer Construction—25 years—Negotiated Water Works Equipment—5 years—Negotiated Permanent Paving—10 years—Negotiated Macadam Paving—5 years—Negotiated	\$ 50,000.00 15,000.00 80,000.00 40,000.00
High School, Acts 1919—20 years—Negotiated	300,000.00 10,000.00
Bridge Construction—10 years—Negotiated Auditorium—14 years—Negotiated Auditorium—6 years—Negotiated	20,000.00 140,000.00 60,000.00
Bridge Construction—18 years—Negotiated School Houses—5 years—Negotiated Auditorium—20 years—Negotiated	72,000.00 10,000.00 200,000.00
Acquiring Land for Public Parks—12 years—Negotiated Widening Locke St.—6 years—Negotiated Sidewalks—3 years—Negotiated	12,000.00 12,000.00 6,000.00
Sewer Construction—20 years—Negotiated New High School—20 years—Negotiated Macadamizing—5 years—Negotiated	20,000.00 400,000.00 20,000.00
Sewer Construction—20 years—Negotiated	20,000.00 \$1,487,000.00
Borrowed inside limit of indebtedness	\$ 372,000.00 1,115,000.00 \$1,487,000.00
Loans Authorized, not negotiated 1920: New High School	\$1,050,000.00
New High School: Total Authorized Loans Borrowed prior to 1920 \$300,000.00 Borrowed in 1920 700,000.00	\$2,050,000.00
	\$1,000,000.00
Balance not yet negotiated	\$1,050,000.00
Lowell Memorial Auditorium : Authorized in 1919	\$1,000,000.00
Loans in 1919	140.000.00
Loans in 1920	400,000.00
Not Negotiated	460,000.00

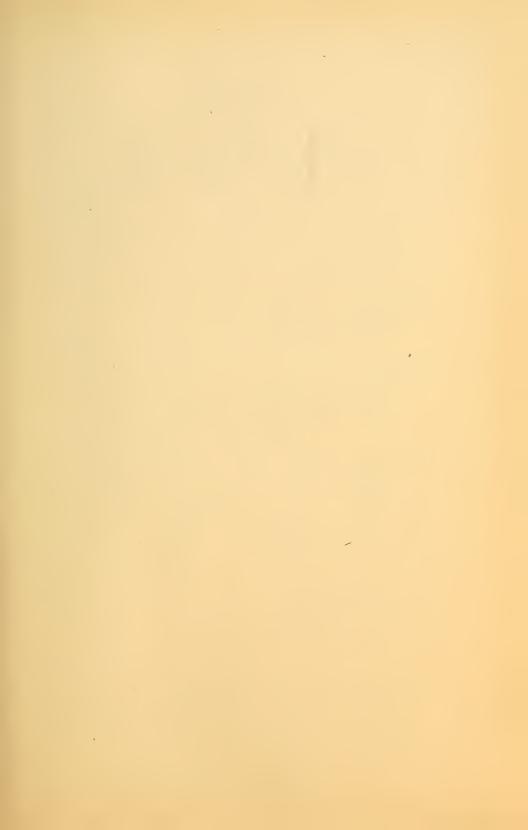


CLASSIFICATION OF RECEIPTS AND PAYMENTS BY SCHEDULES Year 1920

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
General Revenue		-	
1. Taxes:			
Current Year			
1. Property			
2. Pol1	113,851.00		
Previous Years			
3. Property	518,993.72		
4. Pol1	13,770.00		
From the State	074 642 07		į
5. Corporation	274,643.97		
6. Street Railway (exclusive of Boston Elevated excise tax)	399.01		
7. Bank	3,912.66		
Income Tax	204,247.52		
Income Tax (Schools)			
Tax Title Redemption			
ran rine reachipmen			
Total from Taxes	\$3,805,850.45		\$3,805,850.45
2. Licenses and Permits:			
Licenses			}
8. Liquor	16.00		
9. All Other	9,162.00		
Permits	1		
10. Marriage	1,381.00		
11. All Other	1 i		
Total from Licenses and Permits	\$ 10,559.00		\$ 10,559.00
3. Fines and Forfeits:			
12. Court	\$ 9,783.06		
13. Department Penaîties			
14. Contract Violations			
Total from Fines and Forfeits	\$ 9,783.06		\$ 9,783.06
Total forward			\$3,826,192.51

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$3,826,192.51
4. Grants and Gifts: Grants from Other Civil Divisions			
15. From State, for Education			
(Smith-Hughes Fund)	\$ 3,364.00		
b. Aid to High Schools			
c. Aid to Industrial Schools	14,633.63		
d. High School Tuition e. Union Superintendency			
16. From State, for Armories			
17. From State, for Highway			
Purposes			
18. From State, for Other Purposes			
a. Inspector of Animals			
b. Protection against Forest			
Fires			
d.			
19. From County (Dog Li-			
censes), for Schools or Libraries	3,708.47		
Gifts from Individuals	3,700.47		
20. For Expenses			`
21. For Outlays			
Total from Grants and Gifts	\$ 21,706.10		\$ 21,706.10
5. All Other General Revenue: 22.	i 		
23.			
Total from All Other General Revenue			
	·		
Total Forward			\$3,847,898.61

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$3,847,898.61
Commercial Revenue			
6. Special Assessments:			
 24. Street Sprinkling	\$ 25,539.61 3,109.13 4,775.62 2,985.99		
Total from Special Assessments	\$ 36,410.35		\$ 36,410.35
7. Privileges:			
29. Public Service			
Total from Privileges			
Total forward			\$3,884,308.96



SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$3,884,308.96
8. Departmental			
8a. General Government			
Legislative 31. Aldermen and Council; Moderator			
Executive 32. Mayor; Commisson; Selectmen Sunday Concert Permits	\$ 3,688.00	-	
Financial 33. Auditor, Accounting and Auditing 34. Treasurer 35. Collector 36. Assessors 37. License Commissioners 38. Other Finance Offices and Accounts	2,416.07 16.00		
Other General Departments 39. Law	2,043.03		
General Government forward	\$ 8,163.10		
Total forward			\$3,884,308.96

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
1. Departmental			
1a. General Government			Ì
Legislative			
1. Commissioners	'		
a. Salaries and Wages\$	10,000.00		
b. Other Expenses	·		1
Executive			1
2. Mayor; Commission; Select-			
men			
a. Salaries and Wages	5,069.89		
b. Other Expenses	559.78		
Financial	'		
Auditing City Books	977.50		
3. Auditor, Accountant, and			
Auditing			
a. Salaries and Wages	7,581.84		
b. Other Expenses	559.61		
4. Treasurer		-	}
a. Salaries and Wages	16,093.70		
b. Other Expenses	5,390.28		
5. Collector	-,		}
a. Salaries and Wages			
b. Other Expenses			ì
6. Assessors			
b. Other Expenses			i
Assessors Tax Books	2,094.75		1
a. Salaries and Wages	21,119.40		
b. Other Expenses	1,331.65		
7. License Commissioners	_,		
a. Salaries and Wages	5,308.03		}
b. Other Expenses	231.06		
8. Other Finance Offices and			
Accounts			
a. Sinking Fund Com-	Į.		
missioners			
b. Miscellaneous			
Other General Departments			
9. Law			
a. Salaries and Wages	4,480.25		
b. Other Expenses	695.98		
10. City or Town Clerk	0,0,00		
a. Salaries and Wages	9,864.50		
b. Other Expenses	710.06		
-	710.00		
General Government forward \$	92,068.28		

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$3,884,308.96
General Government forward	\$ 8,163.10		
41. City Messenger			
Municipal Buildings 47. City or Town Hall			
Total from General Government	\$ 8,163.10		\$ 8,163.10
8b Protection of Persons and Property:			
Police Department 48. Services of Officers 49. Sale of Materials 50. Miscellaneous	\$ 107.46		
Protection of Persons and Property forward	\$ 107.46		
Total forward			\$3,892,472.06

		_		Ī		
	OBJECTS OF PAYMENTS		Expenses		Outlays	Total
' G	eneral Government forward		92,068.2	3		
11.	City Messenger		, _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	a. Salaries and Wages		1,894.6.	5		
	b. Other Expenses		95.10) (
12.	Public Works					!
	a. Salaries and Wages	1		Ì		
	b. Other Expenses					
13.	Engineering					
	a. Salaries and Wages		7,781.5			
1.4	b. Other Expenses		676.57			
14.	Superintendent of Buildings		2.205.00			
	a. Salaries and Wagesb. Other Expenses	4	2,395.62			
15.	Election and Registration	1				
13.	a. Salaries and Wages		23,880.71			
	b. Other Expenses		3,689.80			
16.	Other General Departments		, 0,002.00			
	Purchasing Agent		7,847.70			
	Registrar of Labor		715.63			
Munici	pal Buildings					
Payr	nent City Hall Sinking Fund	Ì	450,000.00			
17.	City or Town Hall			İ		
	a. Salaries and Wages		17,630.75			
*	b. Other Expenses		16,707.55	_		Ī
То	tal for General Government	\$	625,383.87			\$ 625,383.87
1b. I	Protection of Persons and					
Police	Property: Department					
	Salaries and Wages	\$	283,105.09			
	Horses and Care of Same	,	482.95			
*20.	Equipment and Repairs		1,081.52	\$	50.50	
21.	Fuel and Light		2,355.94	İ		
22.	Maintenance of Buildings and					
	Grounds					
	New Buildings		4048840			
24.	Other Expenses		13,157.18			
D	otection of Persons and Prop-				p	
Pro	erty forward	\$	300 182 68	\$	50.50	
	crey for ward	+/ 		Ψ 		
7	Γotal forward					\$625,383.87

^{*}Entries for construction or new equipment should be made in the second column.

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward Protection of Persons and Prop- erty forward		-	\$3,892,472.06
Fire Department 51. Sale of Materials	Į.	\$ 16,503.61	·
Militia 53. Armories 54. Rifle Ranges			
Inspection 55. Inspection of Buildings 56. Inspection of Wires 57. Sealing of Weights and Measures	. 447.24 1	ŀ	
Forestry 58. Insect Pest Extermination 59. Planting and Trimming Tree 60. Forest Fires	s 90.10) 	
Other Protection of Persons and Property 61. Bounties 62. 63.			
Total from Protection of Person and Property		9 \$ 16,503.6	1 \$ 22,269.30
Total forward			\$3,914,741.36

	OBJECTS OF PAYMENTS	Expenses	Outlays	Total
	Total forward			\$ 625,383.87
Ð	rotection of Persons and			
r	Property forward	\$ 300,182.68	\$ 50.50	
Fire 1	Department			
25.		301,832.07		
26.				
*27.	Equipment and Repairs	222.21	\$ 18,255.00	
28.		827.21		
29.		9,609.70		
30.	Maintenance of Buildings and	Ì		
	Grounds			
*31.			3,126.80	
32.	Other Expenses	9,502.63		
Militi	a			
	Armories			1
34.				
Inspec		,,,,,,,,		
35.	Inspection of Buildings	124,945.96	i i	
	Inspection of Wires		i	
37.	Sealing of Weights and			
	Measures	7,974.40		
Fores	try			
	Insect Pest Extermination	8,487.48	3)	Ì
40.	Forest Fires			
Other	Protection of Persons and			
	Property			
41.	Bounties			
42.				
43.	Pound Keeper	5.00		
44.	Waterways	4.68	3	
т	Cotal for Protection of Persons			
1	and Property	\$ 778,948.04	\$ 21,432.30	\$ 800,380.34
	Total forward			\$1,425,764.21

^{*}Entries for construction or new equipment should be made in the second column.

SOURCES OF RECEIPTS	Expenses for Revenue	Offsets to Outlays	Total
Total forward			\$3,914,741.36
8c. Heatlh and Sanitation:		 	
64. Quarantine and Contagious Disease	\$ 1,754.25		
66. Miscellaneous	1,145.84		
67. Inspection	373.50		
Sanitation 68. Sewers and Sewage Disposal 69. Sewer Construction	3,997.46	\$ 241.18	
Other Health and Sanitation 72. Comfort Station73.	904.75		
Total from Health and Sanitation	8,175.80	241.18	8,416.98
Total forward			\$3,923,158.34

	OBJECTS OF PAYMENTS	Expenses	Outlays	Total
	Total forward			\$1,425.764.21
1c. Healt	Heatlh and Sanitation:			
45.		\$ 6,610,19		
*46.		\$ 0,010.19		
40.	Disease Hospitals	4,665.25		
*47.	Tuberculosis	9,892.01		
48.		990.85		
49.		18,098.07		
50.	Inspection	10,020.07		
50.	a. Inspection of School			
	Children	800.00		
	b. Inspection of Animals	600.00		
	c. Inspection of Meat and			
	Provisions	1,003.75		
	d. Inspection of Milk and	-,,,,,,,		
	Vinegar	3,706.44		
Sanit	J	.,		
51.	Sewer Maintenance and			
	Operation	21,346.06		
52.	Metropolitan Sewer Mainten-			
	ance			
*53.	Eewer Construction		\$ 95,438.36	
*54.	Refuse and Garbage Disposal	131,219.03		
*55.	Street Cleaning			
	e. Inspection of Smoke	365.67		
Other	· Health and Sanitation		İ	
*56.	Sanitaries and Public Con-			
	venience Stations	9,938.06		1
57.				
58.	Draining of Ponds			
59.		25,479.12	20,012.50	
	Public Bath and Comfort			
	Station		9,126,83	İ
7	Total for Health and Sanitation	\$ 234,714.50	\$ 124,577.69	 359,292.19
				[
	Total forward			\$1,785,056.40

^{*}Entries for construction or new equipment should be made in the second column.

	SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
	Total forward			\$3,923,158.34
8d.	Highways:			
74. 75.	General	\$ 1,504.24		
76. 77.	Sidewalks and Curbing Snow and Ice Removal	520.21		
7 8.	Sprinklinga. Waterb. Other	333.63		
79. 80. T	Lighting Miscellaneous otal from Highways			\$ 2,358.08
8e. 81.	Charities Almshouse or Town Farm			
01.	a. Sale of Produce and Stock			
82.				
	a. From Individualsb. From Other Cities and	24.48		
	Towns	2,094.17		
	c. From the State	2,745.03		
	a. From Individualsb. From Other Cities and			
	Towns	840.00		
84. 85.	c. From the State	3,065.34		
7	Total from Charities	\$ 13,260.34		\$ 13,260.34
	Total forward			\$3,938,776.76

	OBJECTS OF PAYMENTS		Expenses		Outlays		Total
	Total forward					\$1	,785,056.40
60.	Highways: General Administration General Highway Expenditures Construction	\$	7,231.75 246,147.84	\$	236,400.01	1	
*63. 64. *65.	21401141110 4114 01111111111111111111111		55,130.19 17,312.51 22,575.22		16,563.34		
66. 67.	Lighting		123,514.54				
	Total for Highways	\$ —	471,912.05	\$ _	252,963.35	\$	724,875.40
68. *69.	Charities: General Administration Almshouse or Town Farm Outside Relief by City or	\$	6,856.59 101,519.51				
71.	Town		34,843.14				
72.	Mothers' Aid Relief given by City or Townb. Relief given by Other		73,851.95				
*73. 74.	Cities and Towns		448.00		•		
T	otal for Charities	\$	217,519.19	-		\$	217.519.19
	Total forward					\$2	,727,450.99

^{*}Entries for construction or new equipment should be made in the second column.

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$3,938,776.76
8f. Soldiers' Benefits: 86. State Aid	804.00 210.00 192.60 10.00		18,949.87
8g. Schools: 90. Tuition and Transportation of State Wards	\$ 6,512.39 66.20 103.32 3,841.59 4,726.00 495.00 2.50	150.00 3,500.00	
Total from Schools	\$ 15,747.00	\$ 3,650.00	19,397.00
8h. Libraries: 94. Fines, Rentals, and Sales 95. Miscellaneous	\$ 817.05		
Total from Libraries	\$ 817.05		817.05
Total forward			\$3,977,940.68

1g. Schools: 80. General Expenses Smith Hughes Fund \$ 3,296.00 a. Administrative Salaries 4,562.49 b. Other General Expenses 16,767.13 c. Other General Expenses 20,339.21 81. Teachers' Salaries 648,586.30 82. Text Books and Supplies 46,760.20 83. Tuition 3,025.85 85. Support of Truants 1,197.36 86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$ 567,247.44 *89. New Buildings \$ 4,660.69 91. Rent \$ 567,247.44 92. Other Expenses 33,305.54 Textile School \$ 945,171.64 \$ 567,247.44 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries 2,350.28 Total for Libraries 28,933.74 \$ 28,933		1/111	11	71110				
1f. Soldier's Benifits: 75. General Administration \$ 2,683.57 German War 1,315.50 76. State Aid 8,224.00 77. Military Aid 2,131.00 78. Soldier's Burials 17,150.30 79. Soldier's Exemption 377.16 Soldiers' Graves 313.91 Total for Soldiers' Benefits \$ 32,195.44 1g. Schools: 80. General Expenses Smith		OBJECTS OF PAYMENTS		Expenses		Outlays		Total
1f. Soldier's Benifits: 75. General Administration \$ 2,683.57 German War 1,315.50 76. State Aid 8,224.00 77. Military Aid 2,131.00 78. Soldier's Purials 17,150.30 79. Soldier's Exemption 377.16 Soldier's Graves 313.91 Total for Soldiers' Benefits \$ 32,195.44 1g. Schools: \$ 32,195.44 80. General Expenses Smith		Total forward	Ì				\$2.	727.450.99
75. General Administration \$ 2,683.57 German War 1,315.50 8,224.00 7.56 State Aid 8,224.00 7.76 Military Aid 2,131.00 7.8 Soldiers' Burials 7.9 Soldiers' Exemption 377.16 Soldiers' Graves 313.91	1 f		1	i			,,	, ,
German War			1\$	2.683.57				
76. State Aid 8,224.00 77. Military Aid 2,131.00 78. Soldiers' Burials 17,150.30 79. Soldiers' Relief 377.16 Soldiers' Graves 313.91 Total for Soldiers' Benefits \$ 32,195.44 1g. Schools: \$ 32,195.44 80. General Expenses Smith Hughes Fund \$ 3,296.00 a. Administrative Salaries 4,562.49 b. Other General Salaries 16,767.13 c. Other General Expenses 20,339.21 81. Teachers' Salaries 648,586.30 82. Text Books and Supplies 46,760.20 83. Tuition 3,025.85 85. Support of Truants 1,197.36 86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$ 567,247.44 *89. New Buildings \$ 4,660.69 91. Rent 90. Furniture and Furnishings 4,660.69 91. Rent 92. Other Expenses 33,305.54 Total for Schools \$ 945,171.64 \$ 567,247.44 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Boo	,		7					
77. Military Aid 2,131.00 78. Soldier's Burials 17,150.30 79. Soldier's Relief 377.16 Soldier's Exemption 377.16 Soldier's Graves 313.91 Total for Soldiers' Benefits \$ 32,195.44 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	76		İ					
78. Soldiers' Burials 17,150,30 79. Soldiers' Relief 377.16 Soldiers' Graves 313,91 Total for Soldiers' Benefits \$ 32,195.44 1g. Schools: \$ 32,195.44 80. General Expenses Smith Hughes Fund								
79. Soldier's Relief				2,101.00				
Soldiers' Exemption 377.16 313.91 Total for Soldiers' Benefits \$ 32,195.44 \$ 32,195.41 Total for Libraries \$ 3,296.00 \$ 4,562.49 \$ 4,662.49 \$ 4,662.49 \$ 4,660.20 \$ 3.025.85 \$ 46,760.20 \$ 3.025.85 \$ 46,760.20 \$ 3.025.85 \$ 3.			 	17 150 30				
Total for Soldiers' Benefits \$32,195.44 \$4562.49	10.							
Total for Soldiers' Benefits								
1g. Schools: 80. General Expenses Smith Hughes Fund \$ 3,296.00 a. Administrative Salaries 4,562.49 b. Other General Expenses 16,767.13 c. Other General Expenses 20,339.21 81. Teachers' Salaries 648,586.30 82. Text Books and Supplies 46,760.20 83. Tuition 3,025.85 85. Support of Truants 1,197.36 86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$ 567,247.44 *90. Furniture and Furnishings 4,660.69 91. Rent \$ 20 92. Other Expenses 33,305.54 Textile School \$ 945,171.64 \$ 567,247.44 *1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933		Soldiers Graves	١		_			
80. General Expenses Smith Hughes Fund	Т	otal for Soldiers' Benefits	\$	32,195.44			\$	32,195.44
80. General Expenses Smith Hughes Fund	-	0.1	-		_			
Hughes Fund			ì				1	
a. Administrative Salaries	80.		6	2 206 00				
b. Other General Salaries c. Other General Expenses 20,339.21 81. Teachers' Salaries 648,586.30 82. Text Books and Supplies 46,760.20 83. Tuition 3,025.85 85. Support of Truants 1,197.36 86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$567,247.44 *89. New Buildings \$567,247.44 *90. Furniture and Furnishings 4,660.69 91. Rent 92. Other Expenses 33,305.54 Textile School 10,000.00 Total for Schools \$945,171.64 \$567,247.44 \$1,512,419. 1h. Libraries: 93. Salaries and Wages \$18,947.78 94. Books, Periodicals, etc 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 892.00 *97. Buildings 98. Other Expenses 2,350.28 Total for Libraries \$28,933.74 \$28,933.74					Ì			
c. Other General Expenses 20,339.21 81. Teachers' Salaries 648,586.30 82. Text Books and Supplies 46,760.20 83. Tuition 3,025.85 85. Support of Truants 1,197.36 86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$567,247.44 *89. New Buildings \$567,247.44 *90. Furniture and Furnishings 4,660.69 91. Rent 92. Other Expenses 33,305.54 Textile School \$945,171.64 \$567,247.44 \$1,512,419. 1h. Libraries: 93. Salaries and Wages \$18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 14,540.5 96. Light 892.00 *97. Buildings 892.00 *98. Other Expenses 2,350.28 Total for Libraries \$28,933.74 \$28,933.74								
81. Teachers' Salaries 648,586,30 82. Text Books and Supplies 46,760.20 83. Tuition 3,025.85 84. Transportation 3,025.85 85. Support of Truants 1,197.36 86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$ 567,247.44 *89. New Buildings \$ 567,247.44 *90. Furniture and Furnishings 4,660.69 91. Rent 33,305.54 Textile School 10,000.00 Total for Schools \$ 945,171.64 \$ 567,247.44 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.74								
82. Text Books and Supplies 46,760.20 83. Tuition 3,025.85 84. Transportation 3,025.85 85. Support of Truants 1,197.36 86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$ 567,247.44 *89. New Buildings 4,660.69 91. Rent 33,305.54 Textile School 10,000.00 Total for Schools \$ 945,171.64 \$ 567,247.44 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.74 \$ 28,933.74	0.1		i					
83. Tuition 3,025,85 84. Transportation 3,025,85 85. Support of Truants 1,197,36 86. Janitors' Services 100,294,34 87. Fuel and Light 52,376,73 88. Maintenance of Buildings and Grounds \$ 567,247,44 *89. New Buildings \$ 4,660,69 91. Rent 33,305,54 Textile School 10,000,00 Total for Schools \$ 945,171,64 \$ 567,247,44 \$1,512,419 1h. Libraries: 93. Salaries and Wages \$ 18,947,78 \$ 94. Books, Periodicals, etc. 5,289,63 \$ 5,289,63 \$ 1,454,05 \$ 96. Light 892,00 * 892,00 *97. Buildings 98. Other Expenses 2,350,28 \$ 28,933,74 \$ 28,933.74								
84. Transportation 3,025,85 85. Support of Truants 1,197,36 86. Janitors' Services 100,294,34 87. Fuel and Light 52,376,73 88. Maintenance of Buildings and Grounds \$ 567,247,44 *89. New Buildings \$ 567,247,44 *90. Furniture and Furnishings 4,660,69 91. Rent 33,305,54 Textile School 10,000,00 Total for Schools \$ 945,171.64 \$ 567,247.44 \$1,512,419 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 \$ 94. Books, Periodicals, etc. 5,289.63 \$ 5,289.63 \$ 95. Binding 1,454.05 \$ 96. Light 892.00 * 892.00 * 897. Buildings \$ 23,50.28 \$ 28,933.74 \$ 28,933.74 \$ 28,933.74 \$ 28,933.74 \$ 28,933.74				46,760.20			İ	
85. Support of Truants								
86. Janitors' Services 100,294.34 87. Fuel and Light 52,376.73 88. Maintenance of Buildings and Grounds \$ 567,247.44 *89. New Buildings \$ 567,247.44 *90. Furniture and Furnishings 4,660.69 91. Rent 33,305.54 Textile School 10,000.00 Total for Schools \$ 945,171.64 \$ 567,247.44 \$1,512,419. 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 \$ 94. Books, Periodicals, etc. 5,289.63 \$ 5,289.63 \$ 95. Binding 1,454.05 \$ 96. Light 892.00 * 892.00 * 892.00 * 892.00 * 97. Buildings \$ 23,50.28 \$ 28,933.74 \$ 28,933.74 \$ 28,933.74				*				
87. Fuel and Light								
88. Maintenance of Buildings and Grounds *89. New Buildings *90. Furniture and Furnishings		Janitors' Services					ļ	
*89. New Buildings		Fuel and Light		52,376.73				
*89. New Buildings	88.	Maintenance of Buildings						
*90. Furniture and Furnishings							ĺ	
91. Rent 92. Other Expenses	*89.				\$	567,247.44		
92. Other Expenses	*90.			4,660.69				
Textile School 10,000.00 Total for Schools \$ 945,171.64 \$ 567,247.44 \$1,512,419. 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 98. Other Expenses 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.	91.	Rent					Ì	
Total for Schools \$ 945,171.64 \$ 567,247.44 \$1,512,419. 1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 98. Other Expenses 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.	92.	Other Expenses		33,305.54				
1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.74 \$ 28,933.74		Textile School		10,000.00				
1h. Libraries: 93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.74 \$ 28,933.74			ĺ –		_			
93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. \$ 5,289.63 95. Binding \$ 1,454.05 96. Light \$ 892.00 *97. Buildings \$ 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.		Total for Schools	\$ -	945,171.64	\$ _	567,247.44	\$1,	512,419.08
93. Salaries and Wages \$ 18,947.78 94. Books, Periodicals, etc. \$ 5,289.63 95. Binding \$ 1,454.05 96. Light \$ 892.00 *97. Buildings \$ 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.	1 h	Libraries:					}	
94. Books, Periodicals, etc. 5,289.63 95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.74			18	18,947.78				
95. Binding 1,454.05 96. Light 892.00 *97. Buildings 2,350.28 Total for Libraries \$ 28,933.74 \$ 28,933.								
96. Light			3					
*97. Buildings		9		,			1	
98. Other Expenses				0,2.00			1	
Total for Libraries \$ 28,933.74 \$ 28,933.				2,350,28				
	70.	Other Dapenses	' _	2,000.20	_			
T-, 1 (, 1	Т	otal for Libraries	\$	28,933.74			\$	28,933.74
1 otal forward		Total forward					\$4,	300,999.25

^{*}Entries for construction or new equipment should be made in the second column.

	SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
	Total forward			 \$3,977,940.68
8i. I	Recreation			
98.	Parks and Gardens		320.00	
		e		
	Total from Recreation	\$ 4,733.57	\$ 320.00	\$ 5,053.57
	Total forward			\$3,982,994.25

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$4,300,999.25
1i. Recreation:			
99. General Administration	ĺ		
	\$ 4,000.00		
b. Other Expenses	222.30		
100. Parks and Gardens			
a. Salaries and Wages	20,443.42		
c. Metropolitan Park Main-			
tenance			
d. Other Expenses	4,915.05	•	
101. Playgrounds and Gymnasia			
a. Salaries and Wages	2,698.20		
*b. Improvements & Additions			
c. Other Expenses	540.25		
102. Bathhouses and Beaches	0.60.24)	
a. Salaries and Wages	868.34		
*b. Improvements & Additions	0 500 65		
c. Other Expenses	2,522.65		
103. Celebrations and Entertain-			
ments	1 450 04		
a. Fourth of July	1,452.04		
b. Labor Day	1,172.80		
c. Band Concertsd. All Other	. 664.00		
Entertainment Soldiers and	1		
	1,438.50		
Sailors of War Veteran Firemen	1,438.30		
Care Trees	100.00		
Salaries and Wages	3,416.07		
Other Expenses	405.94		
Other Expenses	703,24		
Total for Recreation	\$ 44,859.56	\$ 12,320.00	\$ 57,179.56
Total forward			\$4,358,178.81

^{*}Entries for construction or new equipment should be made in the second column.

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$3,982,994.25
8j. Pensions:			
100.			
	1		
-			
Total from Pensions			
8k. Unclassified:			
ĺ			
101 Descripts not Described under			
101. Receipts not Recorded under Previous Classifications			
	\$ 411.00		
Previous Classifications a. Memorial Auditorium b. c.	\$ 411.00		
Previous Classifications a. Memorial Auditorium b.	\$ 411.00		
Previous Classifications a. Memorial Auditorium b. c.	\$ 411.00		
Previous Classifications a. Memorial Auditorium b. c.	\$ 411.00		
Previous Classifications a. Memorial Auditorium b. c.	\$ 411.00		
Previous Classifications a. Memorial Auditorium b. c. d.	\$ 411.00		\$ 411.00

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$4,358,178.81
1j. Pensions: 104. Retirement made from:— a. Police Department	7,093.59 238.37 1,882.92 844.68		
Total for Pensions	\$ 18,191.00		\$ 18,191.00
1k. Unclassified: 105. Damages to Persons and Personal Property 106. Memorial Day 107. City and Town Clocks 108. Searching Parties 109. Ice for Drinking Fountains 110. Payments not Recorded under Previous Classifications a. Printing City or Town Reports b. Claims c. Workman's Compensation d. General Expenses e. Charter Commission	\$ 1,649.81 50.00 1,866.05 1,892.03 5,526.00 6,388.25 176.39		
f. Memorial Auditorium		274,251.94	
Total for unclassified	\$ 17,548.53 	\$ 274,251.94 	\$ 291,800.47
Total forward			\$4,668,170.28

	SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
	Total forwardublic Service Enterprises:		_	\$3,983,405.25
102.	a. Income from Sale of Light			
	and Power			
102	b. Miscellaneous			
103.	a. Income from Sale of Gas			
	b. Sale of By-products (coke,			
	tar, etc.)			
	c. Miscellaneous			
104.	Water			
	a. Income from Sale of	¢ 240 471 42		
	b. Miscellaneous	\$ 349,471.43 22,446.95	1	
105.	All Other	22,440.70	1	
	a. Markets			
	b. Public Scales	93.25		
	c. Docks and Wharves			
	d. Ferriese. Herring and Alewife			!
	Fisheries			
	f. Miscellneous			
		[-
Tot	al from Public Service Enterprises	 ¢= 372.011.63	1	\$ 372,011.63
	Enterprises	φ 3/2,011.00		- 372,011.03
	Cemeteries:			
	Sale of Lots and Graves	11	1	
107. 108.	Care of Lots and Graves Care of Endowed Lots	7,692.37 17,850.00	1	
100.	Miscellaneous	6,195.15	J.	
107.	222000000			
Т	otal from Cemeteries	\$ 36,509.02		\$ 36,509.02
11.	Administration of Trust			
110.	Funds:			
110.				
112.				
7	otal from Administration of			
1	Trust Funds			
	TIUST I UIIUS			
	Total Forward			\$4,391,925.90

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward 2. Public Service Enterprises: 11. Electric a. Maintenance and Operation *b. Construction 112. Gas a. Maintenance and Operation *b. Construction 113. Water a. Maintenance and Operation b. Metropolitan Water Maintenance *c. Construction Water Works Sinking Fund Payment 114. All Other a. Markets b. Public Scales c. Docks and Wharves d. Ferries e. Herring and Alewife Fisheries f. Miscellaneous	\$ 295,412.14	\$ 50,739.40	\$4,668,170.28
Total for Public Service Enter- prises	\$1,296,626.23	\$ 50,739.40	\$1,347,365.63
3. Cemeteries: 115. Maintenance **116. Improvements and Additions			
Total for Cemeteries	\$ 21,218.50		\$ 21,218.50
4. Administration of Trust 117. 118. 119. Total for Administration of Trust Funds			s6 036 754 41
Total forward			\$6,036,754.4

^{*}Entries for construction or new equipment should be made in the second column.

SOURCES OF RECEIPTS	Revenue for Expenses	Indebtedness	Total
Total forward			\$4,391,925.90
12. Interest:			
113. On Deposits114. On Deferred Taxes115. On Deferred Special Assessments	30,054.23 s-		
116. On Sinking Funds117. On Investment Funds118. On Public Trust Funds*a. Charity			
b. School	 3,967.01		
e. All Other Perpetual Ca 119. Miscellaneous J. Tyler Fun Auditorium Deposits	re 14,325.00 d 488.81		
			-
Total from Interest	\$ 61,537.86		\$ 61,537.86
Total Forward			\$4,453,463.76

^{*}Including income of funds invested in real estate.

		==			
	OBJECTS OF PAYMENTS		Expenses	Indebtedness	Total
	Total forward				\$6,036,754.41
5. I	nterest:				
	On Loans in Anticipation of Revenue	\$	93,612.33 159,441.50 200.00		
124.	Enterprises		57,173.75		
	On Loans for Cemeteries Metropolitan Interest Requirements a. Sewer b. Park c. Water				
127.	State Assessment for Interest on Account of Abolition of Grade Crossings				
128.	All Other	_			
To	otal for Interest	\$ 	310,427.58		\$ 310,427.58
	Total Forward				\$6,347,181.99

SOURCES OF RECEIPTS	Revenue for Expenses	Indebtedness	Total
Total Forward			\$4,453,463.76
13. Municipal Indebtedness:			
120. Loans in Anticipation of Revenue		\$3,000,000.00	
122. Loans for General Purposes 123. Trust Funds Used		1,472,000.00	
Enterprises		15,000.00	
Year		11,558.80	
Total from Municipal Indeb	t-	\$4,498,558.8	0 \$4,498,558.80
Total forward			\$8,952,022.56

OBJECTS OF PAYMENTS	Expenses	Indebtedness	Total
Total Forward	63,000.00	\$2,600,000.00	\$6,347,181.99
Total for Municipal Indebtedness		\$2,600,000.00	\$3,007,150.00

SOURCES OF RECEIPTS	Non- Revenue	- Total
Total forward	\$ 450,000.00	\$8,952,022.56
Total from Sinking Funds	\$1,450,000.00	\$1,450,000.00
	Temporary Accounts	
15. Agency, Trust, and Investment Transactions: Agency 132. Taxes a. State b. Non-resident Bank c. County 133. Liquor Licenses Collected for the State 134. Reimbursements for Abolition of Grade Crossings 135. All Other Trust 136. Perpetual Care Funds 137. Other Permanent Public Trust Funds 138. Income for Investment 139. Private Trust Funds and Accounts Investment 140. Sinking Fund Securities 141. Investment Fund Securities Total from Agency, Trust, and	\$ 123.79	
Investment Transactions	\$ 123.79	\$ 123.79
Total forward	. \$	10,402,146.35

			·
OBJECTS OF PAYMENTS	From Revenue	From Non- Revenue	Total
Total forward	\$ 75,000.00		\$9,354,331.99
Total for Sinking Fund	\$ 75,000.00		\$ 75,000.00
		Temporary Accounts	
8. Agency, 'Trust, and Investment Transactions:			
Agency Corporation Tax 140. Taxes a. State b. Non-resident Bank c. County d. State Portion Poll Tax 141. Liquor Licenses Remitted to the State 142. Abolition of Grade Crossings 143. All Other State Highway Bay State Street Railway Special Tax—Army and Navy Men Improvements—Hale's Brook Trust 144. Perpetual Care Funds 145. Other Permanent Public Trust Funds 146. Income Invested 147. Private Trust Funds and		\$ 1.48 298,480.00 12,099.40 130,781.10 79,719.00 4.00 2,240.00 2,694.11 4,934.54 14,071.20 69.61 14,325.00	
Accounts Tax Titles Investment 148. Sinking Fund Securities 149. Investment Fund Securities Total for Agency, Trust, and Investment Transactions		\$ 559.717.93	\$ 559,717.93
Total forward			\$9,989,049.92

	`
SOURCES OF RECEIPTS	Temporary Accounts and Cash Balances
Total forward	\$10,402,146.35
16. Refunds: 142. Taxes	\$ 1,179.92
Total Refunds	\$ 5,642.83 \$ 5,642.83
17. Transfers: 150. Departmental a. from b. from c. from d. from e. from g. from h. from i. from j. from j. from	\$ 18,939.12
Total Transfers	\$ 18,939.12 \$ 18,939.12
18. Balances: 151. General	\$ 392,658.61 \$ 392,658.61
Grand Total Receipts and Casl	1 on Hand \$10,819,386.91

1			
OBJECTS OF PAYMENTS	T Ac Cas	emporary counts and th Balances	Total
Total forward			\$9,989,049.92
9. Refunds:			1
150. Taxes	\$	2,138.55	
151. Licenses			
152. Special Assessments			
153. General Departments			
154. Public Service Enterprises			
155. Cemeteries			
156. Accrued Interest			
157. All Other			
Total Refunds	\$	2,138.55	\$ 2,138.55
10. Transfers:			
158. Departmental			
Various Appropriations to—			
a. Fire	\$	237.50	
b. Charity—O. D. R		149.08	
c. Purchasing Agent		551.00	
d. Buildings		5,723.54	'
e. Sealer	İ	5.93	
f. Charity—Hospital	i	1,099.64	
g. Engineering	Ì	9,612.62	
h. Health Yard		642.51	
i. City Clerk		90.00	
j. Treasurer		90.00	
k. Water Works		250.01	
1. Parks		298.00	
m. Memorial Auditorium		189.29	
Total Transfers	\$	18,939.12	\$ 18,939.12
11. Balances:			
159. General			
160. Sinking Fund			
161. Investment Fund			
162. Perpetual Care Fund			
163. Other Public Trust Fund			
164. Private Trust Funds and Accounts			
Total Cash on Hand End of Year	\$	809,259.32	\$ 809,259.32
Grand Total Parmants and G	ah an ITand		\$10,810,386,01
Grand Total Payments and Cas	on mand		\$10,819,386.91



FINANCIAL STATEMENT

OF THE

CITY OF LOWELL, MASS.

BALANCES
APPROPRIATIONS
CASH RECEIPTS
TRANSFERS
PAYMENTS

From January 1, 1920 to December 31, 1920

REVENUE
Appropriations, Receipts and Payments

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Cash Total Receipts Appropriations	\$ 6,000.00	10,499.37	285,198.45	150.00	38,262.00	124,674.51	400.00	510.00	3,600.00	25,031.37	111,099.64	38,215.08	75,040.00		21 500 00	00.996,16		480.00	377.16 757.00	00.767		00.7	495.50	\$624.71 \$759,831.58
Cash Receipts A		38.89	198.45			32.00				31.37		00.99	40.00		210 00	210.00								\$624.71
		S																						
Transfers						642.51					1,099.64	149.08												\$1,891.23
Appropriations From Revenue	\$ 6,000.00	10,000.00	285,000.00	150.00 5.00	38,262.00	000.000	400.00	510.00	00.009	25,000.00	10,000.00	38,000.00	000000		200.00	01,000,10		480.00	3//.Ib	00.000		420 EO	1,430.30	102.66
Approp	& v.	10,	285,		38,	124,			ς,	25,	110,	38,	75,		2.1	01,						-	1,	\$756,
Balance / From 1919		460.48																	257.00	237.00			495.50	\$1,212.98 \$756,102.66
Credit Balance To 1921	\$ 370.33	3,533.69 \$					34.33			396.00	7,287.04		740.05	-	93.63			166.09	03 00	93.00			495.50	\$ 13,233.43
Debit Balance To 1921			\$.22,473.72		1,815.37	7,187.03		00 06	106.44			1,280.19												\$779,550.90 \$ 32,952.75 \$ 13,233.43
Expended	\$ 5,629.67	6,965.68	307,672.17	150.00	40,077.37	131,861.54	365.67	800.00 600.00	3.706.44	24,635.37	103,812.60	39,495.27	74,299.95	2,683.57	8,224.00	17,150.30	1,315.50	313.91	377.16	00.+00		007	1,438.50	\$779,550.90
Revenue Account	Mayor	Insurance		Fish and Game Warden				School Inspection	Milk Inspection		Charity—Hospital	Charity-O. D. R.		Senef	State Aid	Military Aid Soldiers' Relief	German War	45		Appropriation to pay for en-	3	and Sailors of the War, on	July 4, 1919	
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\$ 8,300.00 21,590.00 22,550.00 21,00.00 11,790.00 27,600.00 8,951.00 750.00	\$104,631.00	\$ 18,112.62 21,500.00 310,000.00 18.00 40,018.00 133,857.14	\$ 18.00 \$523,487.76		237.50 \$330,292.50 27,800.00 250.01 \$371,942.08 372,192.09	487.51 \$371,942.08 \$1,730,284.59
90.00	731.00	9,612.62	110		237.50	487.51
₩	↔	69 -	89		↔	₩
\$ 8,300.00 22,550.00 22,550.00 11,700.00 27,600.00 8,400.00 750.00 1,000.00	\$1,800.00 \$102,100.00 \$	\$ 8,500.00 21,500.00 310.000.00 40,000.00 \$127,850.00	\$507,850.00 \$ 9,612.26		\$330,055.00 27,800.00	\$1,357,855.00 \$
\$ 1,800.00	\$1,800.00	6,007.14	\$6,007.14			
158.55 16.02 98.95 5.25 134.59 552.30 34.37 22.50	1,052.02	43.87 153.94 119.50 130.27 10,342.60	\$ 10,790.18		\$ 9,545.00	9,545.00
<i>↔</i>	€	₩	₩		\$ 8,016.22 100,952.32	\$1,829,708.13 \$108,968.54 \$
\$ 8,141.45 21,573.98 22,451.05 2,094.75 11,655.41 27,570.51 8,380.51 7,15.63 977.50	\$103,578.98 Highways	\$ 18,068.75 21,346.06 309,880.50 39,887.73 123,514.54	\$512,697.58	er	\$338,308.72 18.255.00 473,144.41	\$1,829,708.13
1-3 Auditor 1-5 Assessors 1-6 Assessors 1-6 Assessors 1-7 City Clerk 1-12 Election and Registrars 1-13 Purchasing Agent 1-16 Registrar of Labor 1-16 Auditing City Books 1-1-16 Auditing City Books 1	3—Commissioner of Streets and H	1—11 Engineering		4-Commissioner of Fire and Water	2—2 Fire	

REVENUE-APPROPRIATIONS, RECEIPTS AND PAYMENTS-Continued

recente Expended To 1921 From 1919 From 1919 From 1919 From Reconstructing 3,300.00	J-Commissioner of Public Proper	Property and Licenses	11Ses					
escentinasion	evenue	Expended	Debit Balance Cred To 1921	it Balance Balance o 1921 From 1919	9 -	Transfers	Cas h Receipts	~ -
ange 1,483.71 16.29 1.1 25.53 121,483.71 16.29 1.1 25.60 25.60 8 8,487.48 12.52 12.52 1,214.09 12.52 8 12.52 1,214.09 10.01 3,300.00 495.32 13.36 3,126.80 338.06 13,376.81 16 9,938.06 338.06 \$ 14,028.94 \$ \$214.34 25.60.698.27 \$ \$ 2,834.33 \$ \$ \$38.06 antment \$\$860,129.34\$ \$ \$2,834.33 \$ \$ \$38.00 angle House	400 i	co	Fr.	10.91 10.25 49.28				\$ 5,550.00 2,000.00 32,100.00
r Staton		1,483.71 126,922.53 4,636.50		16.29 7.55 13.50	1,500.00 $121,000.00$	\$ 5,723.54 \$	3 206.54	1,500.00 126,930.08 4,650.00
ng and Reconstructing 3,300,00 495,32 495,32 495,32 495,32 3,126,80 495,32 495,32 495,32 495,32 495,32 495,32 495,32 495,32 495,32 495,32 495,32 495,32 495,32 40,197,72 49,938,06 495,32 40,100,00 495,32 40,105,32 49,938,06 495,32 40,105,32 40,105,32 40,105,32 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 40,105,33 493,308,26 495,32 495,33 495,33 495,33	927-12	7,980.33 8,487.48 1,214.09		25.50 12.52 10.91	8,500.00 8,500.00 1,225.00	5.93		8,005.93 8,500.00 1,225.00
sing Land in the 3,126.80 3,38.06 13,376.81 16 t Staton		3,300.00		495.32	3,300.00			3,300.00
#206,673.74 \$ 338.06 \$ 14,028.94 \$214.44 \$2206,673.74 \$ 338.06 \$14,028.94 \$214.44 \$314.028.94 \$2214.34 \$2214.34 \$234.33 \$234.000.00 \$2214.34 \$2214.	Purchasing Land Highlands and Cor Fire Engine House Comfort Staton	3,126.80 9,938.06		3,376.81	16,503.61			16,503.61 9,600.00
artment \$ 40,197.72 \$ 2,834.33 \$ 38 artment \$860,129.34 \$ 214.34 \$ 921 mal School 10,000.00 565.35 10 3 school 10,000.00 565.35 3 4 ughes Fund \$ 934,308.26 \$ 847.69 \$935.		\$206,673.74	338.06	4,028.94	\$214,428.61	\$ 5,729.47 \$	3 206.54	\$220,364.62
ol	6—Recreation 8—1 Parks			2,834.33	\$ 38,000.00	\$ 298.00 \$	\$. 4,734.05	\$ 43,032.05
\$ 847.69	ool asses	\$860,129.34\\60,698.27\\10,000.00\\184.65\\3,296.00\	⇔	214.34 565.35 68.00	\$921,000.00 10,000.00 750.00 3,364.00		\$41,95	\$41,95 \$921,041.95 10,000.00 750.00 3,364.00
The second secon		\$934,308.26		847.69	\$935,114.00		\$ 41.95	\$935,155.95

	\$ 10,000.00 1,000.00 500.00 150.00 405.00	1,200.00 4,627.84 6,011.43	$17,270.00 \\ 100.00 \\ 11,004.70$	1,000.00	\$53,268.97	\$28,784.06
		\$ 5.00	248.20		\$264.63	\$4,784.06
	\$ 10,000.00 1,000.00 500.00 150.00 405.00	1,200.00 4,622.84 6,000.00	17,270.00 100.00 10,756.50	1,000.00	\$53,004.34	\$24,000.00
	æ	27.20 597.26 485.43	1,700.40	823.61	\$ 3,634.09	\$ 393.52
	A. R. 1,000,00 W. V. 150,00 of V. 150,00	1,172.80 4,030.58 sation Act 5,526.00 Payment	17,270.00 Ssociation 100.00 9,304.30	uission to pro- vestigation as of making Charter of the	\$ 49,634.88	\$ 28,390.54
8-Municipal Council		8—8 Labor Day		penson for the paying carporate of the advisability of making changes in the Charter of the City of Lowell		9—Library Trustees 9— 1 Library

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NON—REVENUE APPROPRIATIONS. RECEIPTS AND PAYMENTS—Continued

No. Account	Expended	Debit Balance Credit Balance Balance To 1921 To 1921 From 191	Credit Balance To 1921	Balance From 1919	Appropriations From Revenue	Cash Transfers Receipts	Cash Total Receipts Appropriations
11—Cometeries 11—1 Cemeteries	\$ 21,218.50	97	\$ 21,450.50	\$6,114.48		\$36,554.52	\$42,669.00
12-Fixed Charges							
12— 1 Interest	\$253,253.83 344,1 50.00 75,000.00		\$ 409.53	\$6.663.36	\$247,000.00 344.150.00 75,000.00		\$253,663.36 344,150.00 75,000.00
] == [450,000.00				450,000.00		450,000.00
37	\$1,122,403.83		\$ 409.53	\$6,663.36	\$6,663.36 \$1,116,150.00		\$1,122,813.36
13-Agency, Trust, Investments and Transactions	nd Transacti	ons					
13—1 National Bank Tax	\$ 12,099.40		\$ 13.06		\$ 12,112.46 4.00		\$ 12,112.46 4.00
3—3 Grade Crossings	2,240.00 298,480.00 2,694.11				2,240.00 298,480.00 2,694.11		2,240.00 298,480.00 2,694.11 130,781.10
	14,(14,071.20		14,071.20
 13—8 Improvement Hale's Brook 13—9 State Portion Poll Tax	69.61 79,719.00 4,934.54 1 48	- 2 48	5,271.00		69.61 84,990.00 4,934.54		69.61 84,990.00 4,934.54
To the state of th	\$545,094,44	\$1.48	\$5.284.06		\$550,377.02		\$550,377.02
			2 (21				

NON-REVENUE

Appropriations, Receipts and Payments

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				Approp.	Approp.				
Non-Revenue Account	Expended	Debit Balance Credit Balance To 1921	Balance From 1919	From	From	Cash Total Transfers Receipts Appropriations	Cash Receipts	Appre	lotal opriations
3—1 Sewer Construction	\$ 95,438.36	\$ 361.19 \$ 2,790.05	3 2,790.05		\$ 90,000.00 \$3,000.00 \$ 9.50 \$ 95,799.55	\$3,000.00	\$ 9.5	\$ 09	5,799.55
Isolation Hospital Equipment and Furnishings	20,012.50	537.79	20,550.29					1.4	20,550.29
3— 4 Public Bath and Comfort Station	9,126.83	125.60	125.60 9,252.43						9,252.43
	\$124,577.69	\$ 1,024.58 \$32,592.77	332,592.77		\$ 90,000.00	\$ 90,000.00 \$3,000 00 \$ 9.50 \$125,602.27	\$ 9.5	50 \$1.	25,602.27
4-Commissioner of Streets and Highways	ghways								
Paving Macadamizing	\$	\$ 2,105.82 32.91 \$	2,695.95		\$80,000.00			↔	\$ 80,000.00 \$ 62,695.95
4-3 New Sidewalks	16,563.34 78,317.19	7.42 570.76 15,725.18 2,042.37	570.76 2,042.37		16,000.00 92,000.00				16,570.76 94,042.37
Construction and Extension	1		000000						22 000 12

23,080.13 12,634.77 \$289,023.98

\$260,000.00

634.77

23,080.13

12,004.05 6,185.25 \$ 36,060.63

11,076 08 6,449.52 \$252,963.35

of First Street
Widening Locke Street

4-6

\$28,389.21 \$534.77

NON-REVENUE-APPROPRIATIONS, RECEIPTS AND PAYMENTS

7—School Department					Appro	Anoro			•
Non-Revenue Account	Expended	Debit Balance Credit Balance To 1921 To 1921	edit Balance To 1921	Balance From 1919	From Revenue	From Loans	Transfers	Cash Receipts A	Total Appropriations
	\$453,532.19	. \$1,32	2,039.86	\$1,322,039.86 \$ 25,572.05	97	\$1,750,000.00		97	\$1,775,572.05
	101,721.08	2	2,319.40	22,319.40 124,040.48					124,040.48
School Houses (year 1920)	8,694.17		1,305.83			10,000.00			10,000.00
	\$563,947.44	\$1,34	15,665.09	\$1,345,665.09 \$149,612.53		1,760,000.00		97	\$1,909,612.53
8—Recreation					,				
8-1 Land for Public Parks	\$ 12,320.00				\$320.00	\$320.00 \$ 12,000.00			\$ 12,320.00
10—Comn issioner of Fire and Water	ter								
10—1 Extension Water Mains and Departmental Equipment	\$ 50,419.15	&- 1 &-	6,782.31	\$ 16,782.31 \$52,201.46		\$ 15,000.00			\$ 67,201.46
ing Water Supply	320.25		3,463.51	3,783.76					3,783.76
	\$ 56,739.40	\$ 3	20,245.82	\$55,985.22		\$ 15,000.00			\$ 70,985.22
14-Unclassified				•					
14—1 Municipal Purposes	\$274,441.23	\$ 61	1,625.02 1,119.66	\$ 1,625.02 \$ 1,625.02 611,119.66 \$24,888.97		\$ 1,625.02 \$860,000.00 \$ 189.29 \$482.63 885,560.89	\$ 189.29	\$482.63	\$ 1,625.02 885,560.89
	\$274,441.23	\$61	2,744.68	\$612,744.68 \$26,513.99		\$860,000.00 \$ 189.29 \$482.63 \$887,185,91	\$ 189.29	\$482.63	\$887,185,91

RECAPITULATION January 1 – December 31, 1920 REVENUE ACCOUNT

Debit Balance Credit Balance Appropriations Appropriations / Cash Total To 1021 From 1919 From Revenue From Loans Transfers Receipts Appropriations	90 \$ 32,952.75 \$ 11,233.43 \$ 1,212.98 \$ 756,102.66 \$ 1,891.23 \$ 624.71 \$ 759,831.58 105 105 1,052.02 1,800.00 102,100.00 9,612.62 18.00 523,487.76 10 10,790.18 6,007.14 507,850.00 9,612.62 18.00 523,487.76 13 108,968.54 9,545.00 1,357,855.00 9,612.62 18.00 523,487.76 13 14,028.94 214,228.61 214,428.61 220,534.7 220,534.62 220,534.62 13 14,028.94 21,428.61 23,000.00 23,000.00 23,032.59 24,032.05 15 26 2,834.33 33,004.34 24,000.00 36,554.52 42,699.00 15 21,450.00 6,114.48 5,284.06 56,63.36 1,116,150.00 36,554.52 1,122,813.36 14 1.48 5,284.06 550,377.02 550,377.02 550,377.02 550,377.02	50 \$142,260.83 \$ 83,503.29 \$ 21,797.95 \$5,654,981.63 \$18,749.83 \$419,170.54 \$6,114,699.96	**NON-REVENUE ACCOUNT	\$2,015,740.80 \$293,093.72 \$954.77 \$2,997,000.00 \$3,189.29 \$ 492.13 \$3,294,729.91
		1	**NON-RE	\$2,015,740.8
De	90 90 90 90 90 90 90 90 90 90 90 90 90 9		\$ 124,577.69 252,963.35 563,947.44 12,320.00 50,739.40 274,441.23	\$1,278,989.11
ž	1. Public Safety 2. Finance		3. Public Safety 4. Streets & Highways 7. Schools	



CLASSIFICATION OF

EXPENSES REVENUE

DEPARTMENTAL

MAYOR'S DEPARTMENT

Appropriation	\$	6,000.00	\$ 6,000.00
Expended			
Salaries:			
To Perry D. Thompson,			
Commissioner of Public Safety	\$	3,000.00	
George F. Toye, Secretary		1,081.91	
Alice E. Kelley, Temp. Secretary		62.50	
Arthur F. Woodies, Secretary		913.33	
Other Expenses:			
For Office Supplies		187.36	
Printing, Binding		6.00	
Telephone		43.29	
Transfers		27.00	
Transportation		102.91	
All Other		205.37	
	_		\$ 5,629.67
Returned to Treasury			370.33
			\$ 6,000.00

COMMISSIONERS

Appropriation		\$ 10,000.00	\$ 10,000.00
	Expended		
Salaries:			

To Commissioners	\$ 10,000,00	
10 Commissioners	 	
		\$ 10.000.00

AUDITING DEPARTMENT

Appropriation		8,300.00	\$ 8,300.00
Expended			
Salaries:			
To J. Joseph Hennessy, Auditor	\$	3,209.86	
Clerks		4,371.98	
Other Expenses:			
For Office Supplies	\$	120 41	
Printing, Binding, etc.		290.75	
Telephone		51.15	
Transfers		8.00	
All Other		89.30	
	_		\$ 8,141.45
Returned to Treasury			158.55
			\$ 8,300.00

TREASURER AND COLLECTOR'S DEPARTMENT

Appropriation	\$ 21,000.00	\$ 21,596.00
Expended		
Salaries:		
To Fred H. Rourke, Treasurer and Collector	\$ 3,211.97	
Clerks	12,613.89	
Writing and Distributing Tax Bills	267.84	
Other Expenses:		
For Advertising	96.48	
Office Supplies	1,189.73	
Postage Stamps	1,404.20	
Premiums on Bonds	700.00	
Printing, Binding, etc	1,321 28	
Telephone	51.63	
Transportation	249.00	
All Other	467.96	
		\$ 21,573.98
Returned to Treasury		16.02
		\$ 21,590.00

ASSESSORS' DEPARTMENT

Appropriation	\$	22,550.00	\$ 2	22,550.00
Expended				
Salaries: To Albert J. Blazon, Assessor Daniel E. Hogan, Assessor Jeremiah J. O'Sullivan, Assessor Permanent Clerks Temporary Clerks	\$	2,809.25 2,809.25 2,809.25 4,468.00 6,478.88		
Assistant Assessors		1,744.77		
Other Expenses:				
For Advertising Automobile Supplies, Repairs Office Supplies Printing, Binding, etc. Telephone Transportation Transfers All Others		187.80 464.94 78.83 289.96 12.05 48.37 30.00 219.70	¢	22,451.05
Returned to Treasury	_	6	φ	98.95
			\$	22,550.00
ASSESSORS' TAX BOOK	S			
Appropriation	\$	2,100.00	\$	2,100.00
Expended				
Other Expenses: For Printing Tax Books	\$	2,094.75	\$	2,094.75 5.25
			\$	2,100.00

LICENSE COMMISSION

Appropriation	\$	5,550.00	\$	5,550.00
Expended				
Salaries and Wages: To C. H. Hanson, License Commissioner George E. Putnam, License Commissioner J. H. McGrath, License Commission Clerk	\$	903.81 853.53 853.53 2,333.16 364.00		
Other Expenses:				
For Office Supplies		18.70 142.50 20.60 49.26	\$	5,539.09
Returned to Treasury				10.91
			\$	5,550.00
LAW DEPARTMENT				
Appropriation	\$	5,200.00		£ 200.00.
	_		\$	5,200.00
Expended	_		\$	5,200.00
Expended Salaries: To William D. Regan Clerk Other Expenses: For Books Office Supplies Printing and Binding Telephone Transfers All Other Returned to Treasury	\$	3,215.25 1,265.00 123.90 251.81 116.75 63.66 10.00 129.86	\$ \$	5,176.23 23.77 5,200.00

CITY CLERK'S DEPARTMENT

Appropriation	\$	11,790.00	\$	11,790.00
Expended				
Salaries and Wages:				
To Stephen Flynn, City Clerk	\$	2,812.62		
Wm. P. McCarthy, Assistant City Clerk		2,415.00		
Clerks		4,636.88		
Other Expenses:				
For Advertising		26.23		
Birth Returns		990.85		
Office Supplies		271.72		
Printing and Binding		354.50		
Telephone		15.00		
All Other		132.61		
	_		\$	11,655.41
Returned to Treasury				134.59
			_	
			\$	11,790.00

CITY MESSENGER'S DEPARTMENT

Appropriation		2,000.00	\$	2,00000.
Expended				
Salaries:				
To Owen A. Monahan	\$	1,894.65		
Other Expenses	Ċ	59.45		
Printing and Binding		9.00		
Telephone		12.65		
Transfers		14.00		
	_		\$	1,989.75
Returned to Treasury				10.25
			ф.	2,000,00
			7	2.000.00

ENGINEERING DEPARTMENT

ENGINEERING DEPARTM.	FW.I.	
Appropriation	\$ 18,112.62	
		\$ 18,112.62
Expended		,
Salaries and Wages:		
To Stephen Kearney, City Engineer	\$ 3,013.06	
Clerk	1,252.48	
All Other Service	13,128.59	
Other Expenses:		
For Office Supplies	316.11	
Printing and Binding	57.18	
Telephone	29.70	
Transfers	4.00	
All Other	267.63	
		\$ 18,068.75
Returned to Treasury		43.87
Returned to Treasury		43.07
		(0.10.112.62
		\$ 18,112.62
ELECTIONS AND REGISTRA	TION	
Appropriation	\$ 27,600.00	
		\$ 27,600.00
Transa da d		
EX DEHO 20		
Expended Salaries and Wages:		
Salaries and Wages:	\$ 1,003.26	
Salaries and Wages: To H. C. McOsker, Registrar of Voters	\$ 1,003.26	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters	904.09	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters	904.09 904.09	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters	904.09 904.09 697.13	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers	904.09 904.09 697.13 10,459.00	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants	904.09 904.09 697.13 10,459.00 4,311.15	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other	904.09 904.09 697.13 10,459.00	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants	904.09 904.09 697.13 10,459.00 4,311.15	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other	904.09 904.09 697.13 10,459.00 4,311.15	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc.	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming Telephones	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50 45.90	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming Telephones Transfers	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50 45.90 246.64	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming Telephones	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50 45.90	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming Telephones Transfers All Other	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50 45.90 246.64	\$ 27.570.51
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming Telephones Transfers	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50 45.90 246.64	\$ 27.570.51 29.49
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming Telephones Transfers All Other	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50 45.90 246.64	
Salaries and Wages: To H. C. McOsker, Registrar of Voters J. O. Allard, Registrar of Voters F. Harrison, Registrar of Voters J. H. Maguire, Registrar of Voters Precinct Officers Registrars' Assistants All Other Other Expenses: For Advertising Equipment, Hardware, Etc. Miscellaneous Office Supplies Printing and Binding Teaming Telephones Transfers All Other	904.09 904.09 697.13 10,459.00 4,311.15 5,601.99 341.86 692.34 207.30 422.56 711.50 907.50 45.90 246.64	

PURCHASING DEPARTMENT

Appropriation	\$	8,951.00		
-			\$	8,951.00
Expended				
Salaries:	ф	0 (11 01		
To Edward H. Foye	\$	2,611.91		
Inspector		1,555.00		
Clerks		2,634.94		
Other Expenses:		22.00		
For Advertising		33.80		
Automobile, Supplies, Repairs		3.10		
Office Supplies		1,012.55		
Printing, Binding, Etc.		279.83		
Telephone		26.10		
All Other		241.47		
			\$	8,398.70°
Returned to Treasury				552.30
-			_	
			\$	8,951.00
•				
COMPLETE TO THE PROPERTY				
CITY HALL DEPARTMEN				
Appropriation		32,100.00		
		32,100.00	\$	32,100.00
Appropriation		32,100.00	\$	32,100.00 [,]
Appropriation			\$	32,100.00
Appropriation Expended Wages: To Janitors		4,442.00	\$	32,100.00 ⁵
Appropriation	\$		\$	32,100.00
Appropriation Expended Wages: To Janitors	\$	4,442.00	\$	32,100.00°
Appropriation Expended Wages: To Janitors Engineers and Firemen	\$	4,442.00 6,891.55	\$	32,100.00
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service	\$	4,442.00 6,891.55 1,461.95	\$	32,100.00
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons	\$	4,442.00 6,891.55 1,461.95	\$	32,100.00 ⁻
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses:	\$	4,442.00 6,891.55 1,461.95 4,835.25	\$	32,100.00 ⁻
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37	\$	32,100.00 ⁻
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97	\$	32,100.00 ⁻
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings Janitors' Supplies	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97 607.53	\$	32,100.00 ⁻
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings Janitors' Supplies Laundry	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97 607.53 248.98	\$	32,100.00
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings Janitors' Supplies Laundry Light	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97 607.53 248.98 2,069.66	\$	32,100.00 ⁻
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings Janitors' Supplies Laundry Light Miscellaneous	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97 607.53 248.98 2,069.66 596.70	\$	32,100.00
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings Janitors' Supplies Laundry Light Miscellaneous Water	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97 607.53 248.98 2,069.66 596.70 487.42		32,100.00 ⁻ 32,050.72 ⁻
Appropriation Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings Janitors' Supplies Laundry Light Miscellaneous Water	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97 607.53 248.98 2,069.66 596.70 487.42		
Expended Wages: To Janitors Engineers and Firemen Elevator Service Matrons Other Expenses: For Fuel Furniture and Fittings Janitors' Supplies Laundry Light Miscellaneous Water All Other	\$	4,442.00 6,891.55 1,461.95 4,835.25 8,702.37 1,356.97 607.53 248.98 2,069.66 596.70 487.42	\$ _	32,050.72

INSURANCE

Appropriation	\$ 10,499.37	\$ 10,499.37
Expended		
To Various Persons and Firms	\$ 6,965.68	\$ 6,965.68 3,533.69
		\$ 10,499.37

REGISTRAR OF LABOR

Appropriation	\$ 750.00	\$ 750.00
Expended		
Salary:		
To Patrick J. Reynolds	\$ 701.63	
Other Expenses:		
For Printing	14.00	
	 	\$ 715.63
Returned to Treasury		34.37
		\$ 750.00



PROTECTION PERSONS AND
PUBLIC PROPERTY

POLICE DEPARTMENT

Appropriation	\$28 5 ,198.45	\$285,198.45
Expended		
Salaries and Wages:		
To Redmond Welch, Chief of Police		
All Other Salaries and Wages	280,105.09	
Other Expenses:		
For Auto, Care, Supplies	8,158.20	
Coal and Wood	1,666.44	
Gas and Electricity	689.50	
Hay, Grain, Etc	316.01	
Harnesses, Stable Supplies, Etc	113.44	
Janitors' Supplies	713.16	
Laundry	58.82	
Motorcycle, Care, Supplies	2,280.00	
Office Supplies, Printing	1,256.75	
Pensions	7,765.44	
Prisoners, Care and Transportation	12 11	
Shoeing	53.50	
Telephone	171.75	
Transfers	25.62	
Water	206.95	
All Other Supplies	801.37	
All Other Expenses	278.02	
*Debit Balance		\$307,672.17 22,473.72
		\$285,198.45

^{*}This Debit Balance to be provided for by the tax levy of 1921, pursuant to Sec. 16, Chap. 719, Acts 1913.

FIRE DEPARTMENT

Appropriation ————————————————————————————————————	\$330,292.50	\$330,292.50
Expended Salaries and Wages: To Edward F. Saunders All Other Salaries and Wages Other Expenses: Equipment and Repairs: For Hose and Fittings All Other Expenses Horses and Care of Same: For Hay, Grain, Straw, Etc. Shoeing Stable Supplies, Harnesses, Etc. Main Buildings and Grounds: For Coal and Wood Gas and Electricity Laundry	\$ 3,010.88 298,821.19	7 7
Other Expenses For Automobile, Repairs and Supplies Fire Alarm Boxes Insurance Office Supplies and Printing Pensions Telephone Transfers Various Other Supplies Water All Other Expenses	3,483.39 42.20 544.86 332.21 7,093.59 275.41 5.62 2,355.39 827.21 760.44	
		\$330,292.50

^{*}This Debit Balance to be provided for by the tax levy of 1921, pursuant to Sec. 16, Chap. 719, Acts 1913.

RIFLE RANGE DEPARTMENT

Appropriation	\$ 1,500.00	A 1 760 00
Expendéd		\$ 1,500.00
Salary:		
To Raymond Eastman, Keeper		
Temporary Clerk	53.00	
Other Expenses:	#0.00	
For Telephone	58.08 126.77	
All Other	120.77	\$ 1,483.71
Returned to Treasury		16.29
returned to Treasury		10.29
		\$ 1,500.00
INSPECTION BUILDING	S	
Appropriation	\$126,930.08	
		\$126,930.08
Expended		
Salaries and Wages:		
To Francis A. Connor, Supt. Public Buildings	\$ 2,395.62	
All Other Salaries and Labor	76,099.52	
Other Expenses:	2 740 70	
For Automobile, Supplies and Repairs	3,749.70 1,878.34	
Electrical Work and Supplies	456.82	
Furniture and Furnishings	427.22	
Hardware	1,993.38	
Harnesses, Stable, Supplies, Etc.	1,416.93	
Hay, Grain, Etc.	177.55	
Lumber	5,256.01	
Mason Work and Supplies	1,600.16	
Office Supplies and Printing	1,329.45	
Paints, Oils, Glass, Etc.	3,827.64	
Pensions	238.37	
Pipe Fittings, Heating, Plumbing, Etc	20,547.39	
Roofing	3,413.02	
Shoeing	170.85	
Telephone	48.75	
Transfers	198.29	
Various Other Supplies	1,168 2 6 91.60	
WaterAll Other Expenses	437.66	
An Other Expenses	407.00	\$126,922.53
Returned to Treasury		7.55
account to a row out of the same of the sa		
		*104.000.00

\$126,930.08

INSPECTION WIRES

Appropriation	\$ 4,650.00	\$	4,650.00
Expended			
Salaries:			
To William H. Mahan, Inspector Wires	\$ 1,935.48		
All Other Services	1,297.38		
Other Expenses:			
For Automobile, Supplies, Repairs	982.61		
Office Supplies and Printing	140.25		
Telephone	23.60		
Transfers	58.08		
Transportation, Car Fares	50.00		
All Other Supplies	149.10		
T FI	 	\$	4,636.50
Returned to Treasury		Т	13.50
		\$	4,650.00

SEALER WEIGHTS AND MEASURES

Appropriations	\$	8,005.93		
	_		\$	8,005.93
Expended				
Salaries:				
To Warren P. Riordan, City Sealer	\$	1,994.49		
All Other Service		4,528.90		
Other Expenses:				
For Advertising		33.67		
Equipment		622.63		
Office Supplies, Printing		84.42		
Telephone		72.35		
Transfers		375.50		
Transportation		93.15		
Various Other Supplies		90.13		
All Other Expenses		85.09		
•			\$	7.980.33
Returned to Treasury				25.60
			\$	8,005.93
			φ	0,005.95

FORESTRY-MOTH EXTERMINATION

Appropriation	\$	8,500.00		
	_		\$	8,500.00
Expended				
Salaries and Wages:				
To John G. Gordon	\$	1,925.19		
All Other Service		4,761.05		
Other Expenses:				
For Advertising		45.11		
Arsenate of Lead		851.40		
Equipment, Hardware, Repairs, Etc		363.28		
Office Supplies, Printing, Etc		39.35		
Transfers		144.10		
Transportation		123.35		
All Other Expenses		234.65		
			\$	8,487.48
Returned to Treasury				12.52
			\$	8,500.00
FISH AND GAME WARD	EN	S		
Appropriation	\$	150.00		
Appropriation	φ	130.00	\$	150.00
			φ	130.00
Expended				
Salaries:				
To Harry Gonzales	\$	100.00		
Elmer H. Houghton		50.00		
	_		\$	150.00
POUND KEEPER				
Appropriation	\$	5.00		
Appropriation	Ψ	J.00	\$	5.00
			Ψ	5.00
Expended				
Salary:				
To A. B. Humphrey	\$	5.00		
	_		\$	5.00

CITY WEIGHER

Appropriation	\$	1,225.00	\$	1,225.00
Expended				
Salaries:				
To George F. Noonan	\$	863.39		
George Enwright		334.42		
Other Expenses:				
For Office Supplies and Printing		16 .2 8		
	_		\$	1,214.09
Returned to Treasury				10.91
			_	
			\$	1,225.00

REPAIRING AND RECONSTRUCTING LAURA LEE SCHOOL

Appropriation		3,300.00	\$ 3,300.00
Expended			
Other Expenses: For Plumbing	\$	3,300.00	
	_		\$ 3,300.00

WATERWAYS

Appropriation	\$ —	500.00	\$ 500.00
Expended			
Other Expenses:			
For Transfers	\$	4.68	
	_		\$ 4.68
Returned to Treasury			495.32
			\$ 500.00

AUDITOR'S REPORT

MOTOR DRIVEN APPARATUS

Appropriation	\$ 27,800.00	
		\$ 27,800.00
_ : :		
Expended		
Other Expenses:		
For Motor Driven Apparatus	\$ 18,255.00	
		\$ 18,255.00
Continued in Appropriation		9,545.00
		ф 27.000.00
		\$ 27,800.00
PURCHASING LAND IN THE HIGHLANDS A	IND CONST	RUCTING
FIRE ENGINE HOUSE.		
Anamaniation	e 16 E02 61	
Appropriation	\$ 10,505.01	\$ 16,503.61
		φ 10,505.01
Expended		
Other Expenses:		
For Land	\$ 3,092.30	
Services	32.00	
All Other Expenses	2.50	
		\$ 3,126.80
Continued in Appropriation		13,376.81
		\$ 16,503.61
		φ 10,303.01

Health and Sanitation

Appropriation

HEALTH OFFICE

\$ 38 262 00

Арргоргацоп	Ф.	38,202.00	
	_		\$ 38,262.00
Expended			
Salaries and Wages:			
To P. Brunelle, T. F. Carroll, J. E. Drury-			
Board of Health	\$	2,104.89	
Francis J. O'Hare, Agent		2,306.33	
All Other Service		19,437.90	
Other Expenses:			
For Automobile, Repairs, Supplies		1,898.00	
Bacteriologist		1,000.00	
Board and Treatment		5,863.78	
Dry Goods, Clothing, Etc		55.84	
Drugs, Medicine, Etc		1,290.65	
Groceries and Provisions		1,698.51	
Medical Attendance		687.87	
Office Supplies, Printing, Etc		933.97	
Telephone		72.90	
Transfers		1,318.31	
Transportation, Traveling Expenses		77 0.75	
Various Other Supplies		48.18	
All Other Expenses		589.49	
	_		\$ 40,077.37
*Debit Balance			1,815.37
			\$ 38,262.00

^{*}This Debit Balance to be provided for by the tax levy of 1921, pursuant to Sec. 16, Chap. 719, Acts 1913.

REFUSE AND GARBAGE

Appropriation	_	4,674.51		
	_		\$12	4,674.51
Expended				
Wages:		004604		
To Labor	\$10	2,816.94		
Other Expenses:		102.00		
For Fuel		123.00		
Hardware, Blacksmiths' Supplies		1,384.58		
Harnesses, Stable Supplies, Etc.	2	950.65		
Hay, Grain, Etc.		2,868.22		
Hire Horses, Teaming, Etc.		2,343.00		
Laundry Lighting		675.00 214.47		
Water		201.27		
All Other Expenses		284.41		
An Other Expenses		204.41	¢12	31,861.54
*Debit Balance			φι	7,187.03
Depit Balance				7,107.00
			.\$12	24,674.51
*This Debit Balance to be provided for by the tax	- 1ox	~. of 10′		
to Sec. 16, Chap. 619, Acts 1913.	LIEV	y 01 192	51, <u>I</u>	oui Suaiit
to Sec. 10, Chap. 019, Acts 1913.				
CHECKET THEODERICAL				
SMOKE INSPECTION	Φ.	400.00		
Appropriation	\$	400.00	ф	400.00
-			\$	400.00
Expended Salary:				
To Charles J. Riley	Φ	351.35		
Other Expenses:	φ	331.33		
For Transportation		10.00		
All Other Expenses		4.32		
All Other Expenses		4.32	\$	365.67
Returned to Treasury			φ	34.33
Returned to Treasury				J 1 .JJ
			\$	400.00
			Ψ	100.00
INSPECTION SCHOOL CHILI	DRE	N		
Appropriation	\$	800.00		
			\$	800.00
Expended				
Salaries:				
To Various Physicians	\$	800.00		
			\$	800.00

INSPECTION ANIMALS

Appropriation	\$	500.00	\$	500.00
Expended				
Salary: To Dr. W. A. Sherman, Inspector of Animals	\$	500.00	\$	500.00
INSPECTION MILK AND VIN	ΕG	AR		
Appropriation	\$	3,600.00	ф	2 (00 00
n 11	_		\$	3,600.00
Expended				
Salaries:				
To Melvin F. Master, Inspector of Milk and				
Vinegar	\$	2,070.00		
Collector		1,294.20		
Other Expenses: For Chemical Equipment and Supplies		159.32		
Office Supplies and Printing		37.75		
Telephone		59.50		
Transportation, Traveling Expenses		61.67		
All Other		24.00		
*Debit Balance	_		\$	3,706.44 106.44
			\$	3,600.00

^{*}This Debit Balance to be provided for by tax levy of 1921 pursuant to Sec. 16, Chap. 719, Acts of 1913.

COMFORT STATION

Appropriation	\$	9,600.00	\$ 9,600.00
Expended			
Wages:			
To Labor	\$	8,284.92	
Other Expenses:			
For Fuel and Light		482.85	
Janitors' Supplies		543.00	
Various Other Supplies		124.20	
Water		342.84	
All Other Expenses		160.25	
	_		\$ 9,938.06
*Debit Balance			338.06
			\$ 9,600.00

^{*}This Debit Balance to be provided for by the tax levy of 1921 pursuant to Sec. 16, Chap. 719, Acts 1913.

SEWER MAINTENANCE

Appropriation	\$ 21,500.00	
		\$ 21,500.00
Expended		
Wages:		
To Labor	\$ 20,028.48	
Other Expenses:		
For Equipment, Hardware, Etc	\$ 888.49	
Fuel and Lighting	196.15	
Hay, Grain, Etc	63.84	
Various Other Supplies	120.03	
All Other Expenses	49 .07	
		\$ 21,346.06
Returned to Treasury		153.94
		\$ 21,500.00

ISOLATION HOSPITAL

Appropriation	\$ 25,031.37	\$ 25,031.37
Expended		
Salaries and Wages:		
To Forster H. Smith, Superintendent	\$ 1,800.00	
Labor	11,997.04	
Other Expenses:		
For Drugs, Medicine, Etc.	101.26	
Fuel, Light and Power	6,356.36	
Groceries and Provisions	2,937.81	
Hardware, Equipment, Etc.	546.16	
Laundry	271.99	
Office Supplies, Printing, Etc.	233.70	
Telephone	47.22	
Transfers	10.00	'
Various Other Supplies		
All Other Expenses	216.85	
The other Edipondes minimum.	210.00	\$ 24,635.37
Returned to Treasury		396.00
Tierdiffed to Treasury minimum.		390.00
		\$ 25,031.37

Highways and Bridges

HIGHWAYS

Appropriations	\$310,000.00	\$310,000.00°
		φ310,000.00
Expended		
Salaries and Wages:	•	
To John B. Blessington, Supt. of Streets	\$ 2,610.88	
Clerical Service and Labor	248,787.96	
Other Expenses:		
For Automobile Repairs and Supplies	6,040.78	
Concrete, Tar, Oils and Asphalt	646.61	
Equipment, Hardware, etc	13,245.45	
Fibre	590.87	
Fuel	205.41	
Granite	850.36	
Harnesses, Stable Supplies, etc	4 152.83	
Hay, Grain, etc.	27,493.80	
Horse Medicine, Veterinary Service	189.86	
Insurance	275.35	
Lime, Brick and Cement	74.29	
Lighting	453.46	
Lumber	838.98	
Office Supplies, Printing and Binding	590.80	
Pensions	1,882.92	
Teaming, Use of Horses and Autos	928.45	
Telephone	136.41	
Transfers	2,040.95	
Transportation and Traveling Expenses	339.61	
Various Other Supplies	297.57	
Water	807.90	
All Other Expenses	399.00	4200 000 50
D		\$309,880.50
Returned to Treasury		119.50
•		\$310,000.00

STREET LIGHTING

\$133,857.14	\$133,857.14
\$ 88,713.71 34,800.83	\$123,514.54 10,342.60
	\$133,857.14
\$ 40,018.00	\$ 40,018.00
\$ 8,271.21 105.87 15,507.27 377.81 12,512.51 2,800.00 313.06	\$ 39,887.73 130.27 40,018.00
	\$ 88,713.71 34,800.83

Charities

CHARITY—CHELMSFORD ST. HOSPITAL

Appropriation	\$111,099.64	
		\$111,099.64
Expended		
Salaries and Wages:		
To Michael A. Tighe, M. D., City Physician	\$ 1,404.77	
All Other Service	25,711.49	
Other Expenses:	ŕ	
For Drugs, Chemicals, Etc.	1,046.45	
Dry Goods, Clothing, Etc.	6,875.79	
Equipment, Hardware, Etc.	2,287.17	
Furniture	130.00	
Groceries, Provisions, etc.	49,382.21	
Hay, Grain, Straw, Etc.	4,845.73	
Horse Shoeing	276.75	
Office Supplies, Printing, Etc.	108.29	
Power, Fuel and Light	8,107.57	
Telephone	35.87	
Transfers	660.51	
Transportation	117.97	
Various Other Supplies	259.49	
Water	1,792.41	
All Other Expenses	870.13	
		\$103,812.60
Returned to Treasury		7,287.04
•	-	
		\$111,099.64
		, , , , , , , , , ,

CHARITY-OUTSIDE RELIEF

Appropriation	\$ 38,215.08	\$ 38,215.08
Expended		
Salaries and Wages:		
To Martin F. Conley, Superintendent	\$ 2,207.62	
Various Physicians	2,242.57	
All Other Service	7,492.22	
Other Expenses:		
For Ambulance Service, Insurance	5,162.86	
Auto Repairs and Supplies	561.76	
Burials	82.00	
Cash Allowance	13,116.14	
Coal and Wood	1,951.55	
Groceries and Provisions	93.00	
Medicines and Medical Attendance	1,429.59	
Office Supplies and Printing	475.68	
Outside Relief, City:		
State Institutions	1,833.69	
Other Institutions	1,704.98	
Relief, Other Cities:		
Cities	265.50	•
Transfers	307.40	
Transportation	97.95	
Various Other Supplies	355.41	
All Other Expenses	115.35	
		\$ 39,495.27
*Debit Balance		1,280.19
		\$ 38,215.08

^{*}This Debit Balance to be provided for by the tax levy for 1921 pursuant to Sec. 16, Chap. 719, Acts of 1913.

AUDITOR'S REPORT

MOTHERS—DEPENDENT CHILDREN

Appropriation	\$ 75,040.00	
		\$ 75,040.00
Expended		
Other Expenses:		
For Board and Care	\$ 373.50	
Burials	24.00	
Mothers with Dependent Children	72,967.67	
Outside Aid	448.00	
Physicians	373.75	
Transfers	8.00	
All Other Expenses	105.03	
,		\$ 74,299.95
Returned to Treasury		740.05
		\$ 75,040.00

Soldiers' Benefits

Appropriation	\$	31,598.00	¢ 21 500 00
	_		\$ 31,598.00
Expended			
Salaries:			
To William A. Arnold, Supt. State Aid	\$	1,401.00	
All Other Service		1,150.00	
Other Expenses:			
For Office Supplies, Printing		54.15	
Telephone		2.50	
Transfers		16.00	
All Other Expenses		59.92	
State Aid:			
To Various Persons		8,224.00	
Military Aid			
To Various Persons		2,131.00	
Soldiers' Relief:			
For Aid (Various Persons)		12,917.00	
Burials		240.00	
Fuel		332.69	
Groceries and Provisions		2,406.59	
Medicine and Medical Attendance		1,062.00	
Transfers		34.25	
Transportation		38.22	
All Other Expenses		119.55	
German War:			
Aid to Various Persons		1,315.50	
	_		\$ 31,504.37
Returned to Treasury			93.63
			\$ 31,598.00

SOLDIERS' GRAVES

Appropriation	\$	480.00	
	_		\$ 480.00
Expended			
Other Expenses:			
For Expenses	\$	313.91	
T	_		\$ 313.91
Returned to Treasury			166.09
			\$ 480.00
SOLDIERS' EXEMPTION	1		
Appropriation	\$	377.16	
	-		\$ 377.16
Expended			
To the Commonwealth of Massachusetts	\$	377.16	
	_		\$ 377.16

Education

SCHOOL DEPARTMENT

Appropriation	\$921,041.95	\$921,041.95
Expended		
Salaries and Wages:		
To Hugh J. Molloy, Supt. of Schools	\$ 456249	
All Other Salaries and Labor		
Other Expenses:	700,002.10	
For Advertising	26.20	
Automobile, Supplies and Repairs	4,508.32	
Board of Truants Training School	1,197.36	
Drugs and Chemicals	1,447.83	
Fuel and Light	49,770.48	
Furniture and Furnishings'	4,660.79	
Hardware and Equipment	8,673.90	
Insurance	432.34	
Laundry	1,596.02	
Lumber	2,179.09	
Office Supplies	2,578 01	
Paper, Pens, Pencils	13,742.04	
Pensions	844.68	
Provisions	1,025.39	
Printing	3,275.05	
Rental St. Anne's Parish House	648.00	
Rental Theatre	325.00	
Telephone	969.84	
Text and Reference Books	7.983.56	
Transportation	3,229.01	
Transfers	2,762.62	
Various Other Supplies	3,335.99	
Water	3,330.37	
All Other Expenses	3,472.81	
Vocational School:		
Salaries and Wages:		
To Various Persons	48,387.34	
Other Expenses:		
For Electrical Supplies, Machinery, Tools and		
Hardware	4,762.00	

Groceries and Provisions	1,547.82	
Laundry	381.47	
Lumber	567.64	
Power, Fuel and Light	2,606.25	
Printing, Office Supplies, Etc.	387.53	
Supplies for Girls' Course	434.33	
Text and Reference Books		
	96.56	
Telephone	112.15	
Transfers	33.00	
Various Other Supplies	1,070.32	
All Other Expenses	311.86	
•		\$920,827.61
Returned to Treasury		214.34
		\$921,041.95
		(-)
TEXTILE SCHOOL		
Appropriation	\$ 10,000.00	
•		\$ 10,000.00
Expended *	1	
	\$ 10,000.00	
		\$ 10,000.00
		, ,
SIGHT SAVING CLASSES		
Appropriation	\$ 750.00	
•		\$ 750.00
Expended		
To Various Persons	\$ 184.65	
		\$ 184.65 ~
Returned to Treasury		565.35
		\$ 750.00
		,
SMITH HUGHES FUND		
	A. 2.2 64.00	
Appropriation	\$ 3,364.00	
		\$ 3,364.00
Expended		
Salaries:		
To Various Persons	\$ 3,296.00	
		\$ 3,296.00
Returned to Treasury		68.00
		\$ 3,364.00

Recreation

PARK DEPARTMENT

Appropriation	\$ 43,032.05	\$ 43,032.05
		\$ 40,002.00
Expended		
Salaries and Wages:		
To Various Persons	\$ 24,455.67	
Labor for Playground	2,698.20	
Other Expenses:		
For Auto Supplies, Repairs	789.45	
Hardware Equipment	1,527.55	
Hay, Grain, Etc.	340.31	
Moving Pictures	910.00	
Office Supplies, Printing, Etc.	222.30	
Plants, Trees, Etc.	1,009.70	
Telephone	28.11	
Transfers	37.34	
Transportation	283.94	
Various Other Supplies	2,432.06 3,446.23	
All Other Expenses	2,016.86	
All Other Expenses	2,010.60	\$ 40,196.72
Returned to Treasury		2,834.33
Returned to Treasury		2,034.33
		\$ 43,031.05
BAND CONCERTS		
Appropriation	\$ 757.00	
		\$ 757.00
Expended		
Other Expenses:		
For Music	\$ 629.99	
All Other	35.00	
· ·		\$ 664.00
Returned to Treasury		93.00
		Φ 757.00
		\$ 757.00

MEMORIAL DAY-G. A. R.

Appropriation	\$	1,000.00	\$	1,000.00
Expended				
Other Expenses: For Collations	\$	176.47 314.13 73.00 324.05 53.27 59.08	\$	1,000.00
MEMORIAL DAY—S. W.	v.			
Appropriation	\$	500.00	\$	500.00
Expended				-
Other Expenses: For Collations Flags and Standards Flowers and Decorations Music Transportation All Other Expenses	\$	200.00 22.50 12.00 171.00 35.00 59.31	\$	499.81
Returned to Treasury			\$.19
			\$	500.00
MEMORIAL DAY—S. OF V.				
Appropriation	\$	150.00	\$	150.00
Expended				
Other Expenses: For Various Expenses	\$	150.00	\$	150.00

FOURTH OF JULY

FOURTH OF JULY				
Appropriation	\$	405.00	\$	405.00
Expended				
Other Expenses: For Music	\$	395.00 10.00	\$	405.00°
VETERAN FIREMAN'S ASSOC	IA?	TION		
Appropriation	\$	100.00	\$	100.00
Expended Other Expenses:			φ	100.00
For Flowers, Decorations	\$	100.00	Φ.	100.00
			\$	100.00
LABOR DAY				
Appropriation	\$	1,200.00	Φ	1,200.00
Expended			\$	1,200.00
Other Expenses: For Automobile Hire Badges Music Prizes All Other	\$	30.00 29.65 964.00 39.15 110.00		
Returned to Treasury		 .	\$	1,172.80° 27.20
			\$	1,200.00
ENTERTAINMENT FOR SOLDIERS AND SAILORS OF THE WAR ON JULY 4, 1919.				
Appropriation	\$	1,438.50	\$	1,438.50
Expended			Ψ	1,700.00
To Lowell Base Ball Club	\$	1,438.50	\$	1,438.50

Library

Appropriation	\$ 28,784.06	\$ 28,784.06
Expended		Ç 2 5,7 0 1100
Salaries and Wages:		
To Frederick A. Chase, Librarian	\$ 2,746.80	
All Other Service	16,200.98	
Other Expenses:		
For Binding Books and Periodicals	1,454.05	
Books	4,714.63	
Lighting	892.00	
Magazines and Newspapers	575.00	
Office Supplies and Printing	784.98	
Sub Libraries	448.25	
Various Other Supplies	428.25	
All Other Expenses	144.60	
		\$ 28,390.54
Returned to Treasury		393.52
		\$ 28,784.06

Public Service Enterprise

WATER DEPARTMENT

Salaries and Labor : To Various Persons	Cash Receipts	\$371,942.08	
Salaries and Labor: To Various Persons \$176,534.52 Other Expenses: For Auto Repairs and Supplies 6.153.09 Damages 10.00 Equipment and Repairs 13,166.20 Fuel 69,368.73 Hay, Grain, Straw, Etc. 1,111.94 Insurance 17,00.70 Lighting 130.46 Lumber 134.95 Meters and Fittings 5,680.71 Office Supplies and Printing 1,388.26 Oil, Waste, Packing, Etc. 2,425.21 Pensions 366.00 Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 44,029.81 **Debit Balance to 1921 \$372,172.09 PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Transfers	250.01	
Salaries and Labor: To Various Persons \$176,534.52 Other Expenses: For Auto Repairs and Supplies 6,153.09 Damages 10,00 Equipment and Repairs 13,166.20 Fuel 69,368.73 Hay, Grain, Straw, Etc. 1,111.94 Insurance 1,700.70 Lighting 130.46 Lumber 134.95 Meters and Fittings 5,680.71 Office Supplies and Printing 1,388.26 Oil, Waste, Packing, Etc. 2,425.21 Pensions 366.00 Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 \$416,201.90 *Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	*		\$372,192.09
To Various Persons \$176,534.52			
Other Expenses: 6,153.09 Damages 10.00 Equipment and Repairs 13,166.20 Fuel 69,368.73 Hay, Grain, Straw, Etc. 1,111.94 Insurance 1,700.70 Lighting 130.46 Lumber 134.95 Meters and Fittings 5,680.71 Office Supplies and Printing 1,388.26 Oil, Waste, Packing, Etc. 2,425.21 Pensions 366.00 Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 \$372,172.09 *PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) \$1,000,000.00 *Appropriation \$1,000,000.00 </td <td></td> <td></td> <td></td>			
For Auto Repairs and Supplies	To Various Persons	\$176,534.52	
Damages	_		
Equipment and Repairs 13,166.20 Fuel 69,368.73 Hay, Grain, Straw, Etc. 1,111.94 Insurance 1,700.70 Lighting 130.46 Lumber 134.95 Meters and Fittings 5,680.71 Office Supplies and Printing 1,388.26 Oil, Waste, Packing, Etc. 2,425.21 Pensions 366.00 Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 \$44,029.81 **Debit Balance to 1921 \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	For Auto Repairs and Supplies	6,153.09	1
Fuel			
Hay, Grain, Straw, Etc.			
Insurance			
Lighting	Hay, Grain, Straw, Etc	1,111.94	
Lumber	Insurance	1,700.70	•
Meters and Fittings 5,680.71 Office Supplies and Printing 1,388.26 Oil, Waste, Packing, Etc. 2,425.21 Pensions 366.00 Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 \$372,172.09 *PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) \$1,000,000.00 Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Lighting	130.46	
Office Supplies and Printing	Lumber	134.95	
Oil, Waste, Packing, Etc. 2,425.21 Pensions 366.00 Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 — \$416,201.90 *Debit Balance to 1921 *AYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Meters and Fittings	5,680.71	
Pensions 366.00 Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 *416,201.90 *Appropriation \$1,000,000.00 *Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Office Supplies and Printing		
Pipe and Fittings 13,190.36 Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 44,029.81 PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Oil, Waste, Packing, Etc	2,425.21	
Refunds 287.57 Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 *416,201.90 *Appropriation \$372,172.09 **Payment AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) \$1,000,000.00 Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Pensions	366.00	
Telephone 301.61 Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 44,029.81 **Debit Balance to 1921 \$372,172.09 **Payment And Retirement Water Works Loan (October 30, 1890.) Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Pipe and Fittings	13,190.36	
Transfers 637.61 Transportation 1,230.35 Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 \$416,201.90 *A4,029.81 \$372,172.09 PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	Refunds	287.57	•
Transportation	Telephone	301.61	
Vacancy List 47.42 Various Other Supplies 1,411.30 Water Works Debt Payment 63,000.00 Water Works Interest 57,173.75 All Other Expenses 751.16 *Debit Balance to 1921 \$416,201.90 *Appropriation \$372,172.09 *Payment And Retirement Water Works Loan (October 30, 1890.) \$1,000,000.00 Expended \$1,000,000.00 Payment for Retirement Water Works Bonds \$1,000,000.00	Transfers	637.61	
Various Other Supplies	Transportation	1,230.35	
Water Works Debt Payment	Vacancy List	47.42	
Water Works Interest	Various Other Supplies	1,411.30	
All Other Expenses	Water Works Debt Payment	63,000.00	•
*Debit Balance to 1921	Water Works Interest	57,173.75	
*Debit Balance to 1921	All Other Expenses	751.16	
### \$372,172.09 PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) Appropriation #### \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00			\$416,201.90
PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00	*Debit Balance to 1921		44,029.81
PAYMENT AND RETIREMENT WATER WORKS LOAN (October 30, 1890.) Appropriation \$1,000,000.00 Expended Payment for Retirement Water Works Bonds \$1,000,000.00			\$372,172.09
Appropriation			
Appropriation			LOAN
Expended Payment for Retirement Water Works Bonds \$1,000,000.00			
Expended Payment for Retirement Water Works Bonds \$1,000,000.00			\$1,000,000.00
Payment for Retirement Water Works Bonds \$1,000,000.00	Expended		
		\$1,000,000,00	
	,		\$1,000,000.00

Cemeteries

Receipts	\$ 36,554.52 6,114.48	\$ 42,669.00
Expended		
Salaries:		
To Thomas Duckworth, Supt. Edson Cemetery	\$ 1,913.25	
Other Salaries and Labor	16,959.38	
Other Expenses:		
For Hay, Grain, Straw, Etc.	346.89	
Hardware, Equipment, Etc.	1,124.92	
Office Supplies and Printing	70.45	
Plants, Etc	60.70	
Transfers	14.00	
Various Other Supplies	510.53	
Water	53.06	
All Other Expenses	165.32	
		\$ 21,218.50
Credit Balance to 1921		21,450.50
		\$ 42,669.00

REVENUE

Debt, Interest, Sinking Funds

INTEREST

Appropriation	\$253,663.36	\$253,663.36
Expended		
For Interest	\$253,253.83	\$253,253.83
Balance to 1921		409.53
•		\$253,663.36
CITY DEBT		
Appropriation	\$344,150.00	\$344,150.00
Expended		
To Various Financial Institutions and Individuals		\$344,150.00
SINKING FUNDS		
Appropriation from Revenue		\$ 75,000.00
Expended		
To the Commissioners of Sinking Funds	\$ 75,000.00	\$ 75,000.00
PAYMENT AND RETIREMENT LOWELL MEMORIAL BUILDING LO		L AND
Appropriation		\$450,000.00
Expended		
Payment for Retirement Lowell City Hall and Memorial Building Loan	\$450,000.00	\$450,000.00

REVENUE

Taxes

NATIONAL BANK TAX

Appropriation	\$ 12,112.46	\$ 12,112,46
Expended		φ 12,112.40
To Commonwealth of Massachusetts	\$ 12,099.40	\$ 12,099.40
Balance to 1921		13.06
		\$ 12,112.46
LIQUOR LICENSES		
Appropriation		4.00
Expended		\$ 4.00
To Commonwealth of Massachusetts	\$ 4.00	A 400
		\$ 4.00
GRADE CROSSINGS		
Appropriation		Ф 2240.00
Expended		\$ 2,240.00
To Commonwealth of Massachusetts		
		\$ 2,240.00
STATE TAX		
Appropriation	\$298,480.00	\$298,480.00
Expended		φ290,400.00
To Commonwealth of Massachusetts	\$298,480.00	\$298,480.00
		\$ 290,400.00
STATE HIGHWAY TAX	-	
Appropriation		\$ 2,694.11
Expended		Ψ 2,0211
To Commonwealth of Massachusetts	\$ 2,694.11	\$ 2,694.11
		T =,07

COUNTY TAX

COUNTY TAX		
Appropriation		4120 701 10
Expended		\$130,781.10
To County Treasurer	\$130,781.10	
		\$130,781.10
SPECIAL TAX-ARMY AND NA	T/3/ T///3/NT	
SPECIAL TAX—ARMI AND NA	A I TATEATA	
Appropriation	\$ 14,071.26	\$ 14,071.20
Expended		φ 11,071.20
To Commonwealth of Massachusetts		* 4 4 0 7 4 20
	-	\$ 14,071.20
IMPROVEMENT HALE'S BR	00K	
Appropriation		
Expended		\$ 69.61
To Commonwealth of Massachusetts		
-		\$ 69.61
STATE PORTION POLL T	'AX	
Appropriation		
Expended		\$ 84,990.00
· ·	A 80 840 00	
To Commonwealth of Massachusetts	\$ 79,719.00	\$ 79.719.00
Balance to 1921		\$ 5,271.00
		\$ 84,990.00

AUDITOR'S REPORT

BAY STATE STREET RAILROAD

Appropriation	\$ —	4,934.54	\$ 4,934.54
Expended			
To Commonwealth of Massachusetts		4,934.54	\$ 4,934.54

CORPORATION TAX

Expended

To Commonwealth of Massachusetts	\$ 1.48	
	 	\$ 1.48

NON-REVENUE Unclassified

CLAIMS

Appropriation	\$	4,627.84		
Expended	_		\$	4,627.84
Other Expenses:		150 10		
For Damages	\$	159.19 799.60		
Injuries Services		799.00		
Street Watering and Tax Refunds		2,138.55		
All Other Expenses		933.24		
_			\$	4,030.58
Returned to Treasury				597.26
			_	
			\$	4,627.84
REVISION OF ORDINANC	ES			
Balance from 1919	\$	495.50		
	_		\$	495.50
Balance to 1921	\$	495.50		
	-		\$	495.50
AUDITING BOOKS				
Appropriation	\$	1,000.00		
	_		\$	1,000.00
Expended				
Other Expenses:	Φ.	077.50		
For Auditing Balance to 1921	\$	977.50 22.50		
Datance to 1921	φ		\$	1,000.00
			Ψ	1,000.00
WORKMEN'S COMPENSAT				
Appropriation	\$	6,011.43	ф	(011 42
Expended			\$	6,011.43
Other Expenses:				
To Various Persons (Compensation)	\$	4,928.96		
First Aid, Medical Treatment		566.70		
Printing		6.25		
All Other		24.09	φ	E E26.00
Returned to Treasury	_		\$	5,526.00 485.43
Tecurried to Treasury				
			\$	6,011.43

GENERAL EXPENSES

Appropriation	\$ 11,004.70	\$ 11,004.70
Expended		
Other Expenses:		
For Decorations	\$ 219.00	
Fireworks	1,000.00	
Music	443.00	
Office Supplies, Printing, Binding	2,533.70	
Memorial Day Celebration	340.90	
Preparation of Bonds	3,104.57	
Services	34.35	
Transfers	90.00	
Transportation	72.18	
All Other Expenses	1,466.60	
		\$ 9,304.30
Returned to Treasury		1,700.40
		A 11 004 70
		\$ 11,004.70

APPROPRIATION FOR LIQUIDATION AND PAYMENT CERTAIN ACCOUNTS AND BILLS DUE FROM CITY OF LOWELL TO VARIOUS FIRMS AND PERSONS FOR AND ON ACCOUNT OF SEVERAL OF ITS DEPARTMENTS DURING THE FISCAL YEAR 1919.

¢ 17 270 00

Appropriation	\$ 17,270.00	\$ 17,270.00
Expended		
Other Expenses:		
For Buildings Department	\$ 6,246.96	
Charity—Out Door Relief Department	1,023.05	
Engineering Department	1.95	
Fourth of July Celebration	47.04	
Insurance Department	1,473.34	
School Department	7,033.79	
Vocational School Department	1,443.87	
		\$ 17,270.00

LOWELL CHARTER COMMISSION

Appropriation	\$	1,000.00	\$	1,000.00
Expended				
Other Expenses:				
For Advertising	\$	65.94		
Office Supplies and Printing		43.45		
All Other Expenses		67.00		
	_		\$	176.39
Balance to 1921				823.61
			_	
			\$	1,000.00

NON-REVENUE

Health and Sanitation

SEWER CONSTRUCTION

Balance from 1919	\$ 2,790.0.	5
Appropriation	93,009.50)
		\$ 95,799.55
Expended		
Wages:		
To Labor	\$ 75,146.62	7
Other Expenses:	¥ 10,1100	
For Brick and Cement	2,239.20	5
Castings	499.0	
Fuel	116.3	
Hardware and Equipment	800.48	
Lumber	175.30	
Pipe and Fittings	7,529.4	
Transfers	3,323.5	
All Other Expenses	1,116.2	
All Other Expenses	1,110.2	- \$ 95,438.36
Balance to 1921		361.19
Datance to 1921		301.19
		\$05.700.55
		\$95,799.55
		\$95,799.55
IGOI ATION HOSDITAL (Fourthment or	rd Furnish	
ISOLATION HOSPITAL (Equipment ar	ıd Furnish	
,		ings)
ISOLATION HOSPITAL (Equipment ar		ings)
Balance from 1919		ings)
Balance from 1919 Expended		ings)
Balance from 1919 Expended Other Expenses:	\$ 20,550.29	ings) - \$ 20,550.29
Balance from 1919 Expended Other Expenses: For Furniture and Furnishings	\$ 20,550.29	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment	\$ 20,550.29 \$ 8,119.13 1,997.10	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment	\$ 20,550.29 \$ 8,119.13 1,997.10 4,009.83	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment Laundry Equipment	\$ 20,550.29 \$ 8,119.13 1,997.10 4,009.83 438.08	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment	\$ 20,550.29 \$ 8,119.1; 1,997.10 4,009.8; 438.08 2,699.99	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment Laundry Equipment	\$ 20,550.29 \$ 8,119.13 1,997.10 4,009.83 438.08	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment Laundry Equipment Medical Equipment	\$ 20,550.29 \$ 8,119.1; 1,997.10 4,009.8; 438.08 2,699.99	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment Laundry Equipment Medical Equipment Various Other Supplies All Other Expenses	\$ 8,119.13 1,997.10 4,009.83 438.08 2,699.93 2,603.29	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment Laundry Equipment Medical Equipment Various Other Supplies All Other Expenses	\$ 8,119.13 1,997.10 4,009.83 438.08 2,699.93 2,603.29	ings) - \$ 20,550.29
Expended Other Expenses: For Furniture and Furnishings Hardware and Equipment Kitchen Equipment Laundry Equipment Medical Equipment Various Other Supplies	\$ 8,119.13 1,997.10 4,009.83 438.08 2,699.93 2,603.29	ings) - \$ 20,550.29

PUBLIC BATH AND COMFORT STATION

Balance from 1919	\$ 9,252.43	\$ 9,252.43
Expended		
Other Expenses:		
For Contracts	\$ 3,788.83	
All Other Expenses	5,338.00	
	 	\$ 9,126.83
Balance to 1921		125.60
		\$ 9,252.43

NON-REVENUE

Highways and Bridges

PAVING

Appropriation	\$ 80,000.00	
		\$ 80,000.00
Expended		
Wages:		
To Labor	\$ 58,093.01	
Other Expenses:	φ 00,000.01	
For Brick and Cement	8,732,47	
Edgestone, Etc.	649.51	
Paving Blocks	3,753.81	
Teaming	1,100.00	
Transfers	1,009.71	
Transportation	613.77	
All Other Expenses	3,941.90	
		\$ 77,894.18
Balance to 1921		2,105.82
		\$ 80,000.00
		φ 60,000.00
MACADAMIZING		
Balance from 1919	\$ 2,695.95	
Appropriation	60,000.00	
		\$ 62,695.95
Expended		
Wages:		
To Labor	\$ 44,182.73	
Other Expenses:		
For Equipment and Repairs	4,823.17	
Fuel	3,540 22	
Oil, Tar, Tarite	7,510.40	
Stone	172.50	
Teaming	2,125.00	
Transfers	286.98	
All Other Expenses	22.04	A. (2.((2.04
D 1 1021		\$ 62,663.04
Balance to 1921		32.91
		\$ 62,695.95
		, ,

\$ 16,570.76

NEW SIDEWALKS

Balance from 1919\$ Appropriation	5 570.76 16,000.00
Expended	
Wages:	
To Labor	\$ 5,782.45
Other Expenses:	
For Concrete	745.65
Edgestone	5,019.98
Granolithic Work	4,190.88
Transfers	546.98
All Other Expenses	824.38
-	\$ 16,563.34
Balance to 1921	7.42

BRIDGE CONSTRUCTION

Balance from 1919	\$ 2,042.37 92,000.00	\$ 94,042.37
Expended		
Wages:		
To Labor	\$ 1,891.42	
Other Expenses:		
For Contracts	69,923.90	
Equipment and Repairs	1,434.07	
Lumber	3,951.76	
Transfers	984.66	
Various Other Supplies	81.00	
All Other Expenses	50.38	
		\$ 78,317.19
Balance to 1921		15,725.18
		\$ 94,042.37

CONSTRUCTION AND EXTENSION OF FIRST ST.

Balance from 1919	
	\$ 23,080.13
	
Expended	
Wages:	
To Labor	
Other Expenses:	
For Contracts	
Equipment 420.00	
	\$ 11,076.08
Balance to 1921	12,004.05
	\$ 23,080.13
WIDENING LOCKE STREET	
Appropriation \$ 12,634.77	
	\$ 12,634.77
79 1 1	
Expended	
Wages:	
To Labor	
Other Expenses:	
For Land and Buildings	
All Other Expenses	
	\$ 6,449.52
Balance to 1921	6,185.25
	\$ 12,634.77

NON-REVENUE

Education

ACQUIRING LAND, CONSTRUCTING NEW HIGH SCHOOL

Appropriation		
Expended		
Salary and Wages:		
To Nelson D. Keables	\$ 1,770.00	
Labor	57.34	
Other Expenses:		
For Advertising	357.31	
Architectural Service	27,765.68	
Contracts	422,749.16	
Various Other Supplies	120.20	
All Other Expenses	712.50	•
		\$453,532.19
Balance to 1921		1,322,039.86
		\$1,775,572.05

ACQUIRING LAND AND CONSTRUCTING SCHOOLS

Balance from 1919	\$124,040.48	\$124,040,48
Expended		Ψ12 1,0 10110
Wages:		
To Labor	\$ 4,814.91	
Other Expenses:		
For Architectural Services	2,700.35	
Contracts	87,454.44	
Equipment	5,251.61	
Transfers	1,430.39	
All Other Expenses	69.38	
The Other Emperiods minimum.		\$101,721.08
Balance to 1921		22,319.40
		\$124,040.48

ACQUIRING LAND AND CONSTRUCTING SCHOOL HOUSES YEAR 1920

Appropriation	\$ 10,000.00	\$ 10,000.00
Expended		
Wages:		
To Labor	\$	
Other Expenses:		
For Hardware	124.34	
Lumber	3,851.76	
Teaming	12.00	
Transfers	1,201.97	
All Other Expenses	673.88	
		\$ 5,863.95
Balance to 1921		1,305.83

\$ 7,169.78

NON-REVENUE

Recreation

ACQUIRING LAND FOR PUBLIC PARKS ON THE SOUTHERLY SIDE OF RIVERSIDE STREET

Appropriation	\$ 12,320.00	
		\$ 12,320.00
Other Expenses:		
For Land and Buildings	\$ 3,937.50	
Services	8,308.27	
Transfers	42,31	
All Other Expenses	31.92	
		\$ 12,320.00

NON-REVENUE

Water Works

EXTENSION MAINS AND DEPARTMENTAL EQUIPMENT

Balance from 1919	Ċ	52,201.46 15,000.00	\$	67,201.46
Expended				
Wages:				
To Labor	\$	5,794.01		
Other Expenses:				
For Hardware and Equipment		39,987.81		
Pipe, Valves, Etc.		1,785.91		
Sand, Gravel and Cement		1,715.58		
Transfers		602.72		
Various Other Supplies		533.12		
**	_		\$	50,419.15
Balance to 1921				16,782.31
			\$!	67,201.46

ACQUIRING LAND AND PROTECTING WATER SUPPLY

Balance from 1919	\$ 3,783.76		
	 	\$	3,783.76
Expended			
Other Expenses:			
For Services	\$ 250.00		
All Other Expenses	70.25		
1	 	\$	320.25
Balance to 1921		,	3,463.51
		_	
		\$	3,783.76

\$885,560.89

NON-REVENUE

Unclassified

MUNICIPAL PURPOSES

Balance from 1919	\$ 1,625.02	
D 1	<u> </u>	\$ 1,625.02
Balance to 1921	\$ 1,625.02	\$ 1,625.02
		φ 1,023.02
LOWELL MEMORIAL AUDITO	RIUM	
Balance from 1919	\$ 24,888.97	
Appropriation	860,000.00	
Cash Receipts	482.63	
Department Transfers	189.29	
·		\$885,560.89
Expended		
Other Expenses:		
For Contracts	\$233,254.12	
Land and Buildings	14,730.58	
Services	26,251.64	
All Other Expenses	204.89	
		\$274,441.23
Balance to 1921		611,119.66



FUNDS

SINKING HAPGOOD WRIGHT JOHN DAVIS CEMETERY

FUNDS, DEC. 31, 1920

High School due April, 1921—\$150,000.00	
Value January 1, 1920	\$150,678.10
Value December 31, 1920	173,077.46
	+ 22 200 26
Increase during 1920	\$ 22,399.36
New School Houses due July, 1926—\$200,000.00	
Value January 1, 1920	\$139,956.54
Value December 31, 1920	178,334.12
1010	ф. 20. 277 го
Increase during year 1919	\$ 38,377.58
Hapgood Wright Centennial Fund due 1926.	
Amount of Fund Jan. 1, 1920	\$ 12,655.03
Increase to December 31, 1920	600.64
21101 case to 2000111501 014 1720 1111111111111111111111111111111111	
Total	\$ 13,255.67
Cemetery	
Cemetery Perpetual Care Fund:	
On hand January 1, 1920	\$148,374.98
On hand January 1, 1921	151,719.48
Increase during year 1920	\$ 3,344.50
Deposited in banks	\$141,065.00
Interest undrawn	10,654.48
Total amount of fund Dec. 31, 1920	\$151,719.48

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS . FOR THE YEAR 1920.

Lowell, Mass., Jan. 1, 1921

To the Municipal Council of Lowell:

Gentlemen:—The Commissioners of the Sinking Funds of the City of Lowell have the honor to submit the following report of the several Sinking Funds of said City and of the Hapgood Wright Centennial Fund for the year 1920;

Full value of all Sinking Funds January 1, 1921,	\$ 351,411.58	
Full value of all Sinking Funds January 1, 1920,	1,701,802.83	
Decrease during the year		\$1,350,391.25
Value of Water Loan Sinking Fund January 1, 1921	0.00	,
Value of Water Loan Sinking Fund January 1, 1920	968,360.54	
Decrease during year		\$ 968,360.54
Value of all other Sinking Funds January 1, 1921 Value of all other Sinking Funds January 1, 1920	351.4/11.58 733,442.29	
Decrease during the year		\$ 382,030.71
Total decrease as above		\$1,350,391.25
Value of the Hapgood Wright Centennial Trust Fund January 1, 1921 Value of the Hapgood Wright Centennial Trust Fund January 1, 1920		13,255.67
Increase during the year		\$ 600.64

WATER LOAN SINKING FUND

On hand Jan 1, 1920		Cash 410.54 16,000.00 40,258.27 48,357.64 262.05 1,526,496.49 \$1.631,784.99	Total \$968,360.54
PAID DURING 1920 SECURITIES—Matured and sold CASH—For Securities purchased	1,611,450.00	631,784.99	
Paid to the City of Lowell to pay and retire Water Loan		\$1,00,000.00	
On hand December 31, 1920	0.00	0.00	0.00
Decrease during 1920			\$968,360.54

CITY HALL AND MEMORIAL BUILDING SINKING FUND.

On hand Jan. 1, 1920	Securities \$442,500.00 152,500.00 \$595,000.00	7,500.00 4,241.73 20,642.60 211.95 570,409.90	Total \$442,807.65
PAID DURING 1920 SECURITIES—Sold or matured CASHFor Securities purchased	595,000.00	153,313.83 450,000.00	
Paid to the City of Lowell to pay and retire City Hall and Memorial Building Loan	0.00	450,000.00	0.00
Decrease during 1920			\$442,807.65

LOWELL HIGH SCHOOL SINKING FUND.

On hand Jan. 1, 1920	237,000.00	Cash \$ 178.10 3,000.00 9,325.81 114.00 212,036.65 	Total \$150,678.10
PAID DURING 1920 SECURITIES—Sold or matured CASH—For Securities purchased On hand December. 31, 1920	216,500.00	222,577.10 \$ 2,077.46	\$173,077.46
Increase during 1920			\$ 22,399.36

SECURITIES BELONGING TO THIS FUND

	Coupon Bonds	Rate	Par Valu	e Maturity
12	N. Y. N. H. & H. R. R	4	\$12,00.00	July, 1955
5	Boston & Maine R. R.	4	5.000.00	Aug., 1942
25	Boston & Maine R. R	4	25,000.00	Sept., 1926
2	St. Johnsbury & Lake Cham-			1 /
	plain R. R	5	2.000.00	Mar., 1944
2	Boston & Lowell R. R	4	2,000.00	Apr., 1932
1	City of Lima, Ohio	5	1,000.00	Apr., 1921
2	City of Lowell	4	2.000.00	Apr., 1921
1	U. S. Govt. 4th Liberty Loan	41/4	10,000.00	Oct., 15,1933/38
35	Boston Elevated R. R	4	35,000.00	May, 1935
10	Fitchburg R. R	4	10.000.00	May, 1925
5	U. S. Govt. 2nd Liberty Loan	41/4	50,000.00	Nov., 15, 1927/42
10	N. Y. N. H. & H. R. R	4	10,000.00	May, 1954
7	Boston & Maine R. R	6	7,000.00	June, 1930
				,
			\$171.000.00	
Cas	sh on deposit in Appleton Nat. B	ank	2,077.46	
			\$173,077.46	

NEW SCHOOL HOUSES SINKING FUND

On hand Jan 1, 1920	278,000.00	Cash \$ 456.54 4.000.00 8,941,36 145.70 235,163.90 248,707.50	Total \$139,956.54
PAID DURING 1920 SECURITIES—Sold or matured CASH—For Securities purchased On hand December 31, 1920	248,500.00	239,373.38	178,334.12 \$ 38,377.58

SECURITIES BELONGING TO THIS FUND

	Coupon Bonds	Rate	Par Value	Maturity
63	N. Y. N. H. H. R. R	4 %	\$63,000.00	
4	Boston & Maine R. R	4	4,000.00	Aug., 1942
1	City of Lowell	4	1,000.00	Apr., 1921
15	N. Y. N. H. & H. R. R	4	15,000.00	May, 1954
25	Worcester Consolidated R. R	5	25,000.00	Nov., 1927
8	Boston & Maine R. R	6	8,000.00	June, 1930
15	Boston Elevated R. R	5	15,000.00	Dec., 1942
28	Lynn & Boston St. R. R	5	28,000.00	Dec., 1924
	Registered	Bonds		
1	Boston & Maine R. R	41/2	10,000.00	Jan., 1944
Cas	h on deposit in Appleton National Ba	ank	\$169,000.00 9,334.12	
			\$178,334.12	

HAPGOOD WRIGHT CENTENNIAL TRUST FUND

On hand January 1, 1920 RECEIVED DURING 1920	Securities \$12,150.00	\$ Cash 505.03		Total 2,655.03
CASH—Income on Investments Income on Bank Deposits		577.11 23.53		
On hand December 31, 1920	\$12,150.00	\$ 1,105.67	\$13	3,255.67
Increase during 1920			\$	600.64

SECURITIES BELONGING TO THIS FUND

	U. S. Govt. Victory Loan U. S. Govt. Victory Loan		Coupon Bonds Registered	\$4,650.00 7,5000.00
Cas	h in Lowell Institution for Savi	ngs		1,105.67
			-	\$13,255.67

Principal	sum	111	tund	•••	 • • • • • • • • • • • •	 	\$7,343.79)
Accrued	intere	est			 	 	5,911.88	3
						_		_
							\$13,255.67	7

Respectfully submitted,

AUSTIN K. CHADWICK CHARLES L. KNAPP FRANK P. McGILLY

Commissioners of Sinking Funds of the City of Lowell.

ACCOUNT OF THE CITY TREASURER AND COLLECTOR OF TAXES FOR THE YEAR 1920.

Lowell, Mass., Jan. 1, 1921.

To the Municipal Council:

Cash

Gentlemen:—I have the honor to submit the following report of the Receipts and Expenditures of the City of Lowell for the financial year 1920:

Monthly Receipts As I	\$ 173,110.22	
JanuaryFebruary	356,970.02	
March	536,184.68	
	760,937.97	
•	834,223,54	
May	530,089.62	
June	.,-	*
July	309,835.84	
August	729,088.43	
September	740,032.92	
October	3,261,800.97	
November	1,208,156.18	
December	967,358.79	\$10,407,789.18
Cash balance January 1, 1920	·	392,658.61
		\$10,800,447.79
Monthly Payments As I	Follows	
January		
February		
March		
April		
May		
June ·		
July	. 1	
August		
September	· · · · · · · · · · · · · · · · · · ·	
*	. ,	
October	-,	
November		
December	1,222.465.59	
		\$ 9,991,188.47
balance December 31, 1920		809,259.32
		\$10,800,447.79
Respectf	ully submitted,	

Respectfully submitted,
FRED H. ROURKE
City Treasurer and Collector
of Taxes

STATEMENT OF THE CITY TREASURER RELATING TO SPECIAL FUNDS FOR CARE OF PUBLIC BURIAL GROUNDS.

Lowell, Mass., Jan. 1, 1921.

\$126,740.00

To the Municipal Council:

Gentlemen:—I have the honor to submit the following statement of Special Funds in my hands, deposited for perpetual care of Lots in the the Public Burial Grounds of the City of Lowell.

On hand January 1, 1920	
Received during the year from—	
Walter Beardsley	\$ 25.00
Elizabeth M. Leslie	100.00
Fred Booth	25.00
Abbie S. Simonds	100.00
Thomas Duckworth (Fred N. Janvrin)	100.00
Edward Drewett	100.00
Edward Drewett	100.00
William Sheppard, Exr.	100.00
Mrs. A. S. Maynard	100.00
Joseph Fleming	100.00
James McCord, Jr.	100.00
Mrs. Esther A. Frost	100.00
Mrs, Anna M. Moore	50.00
Mrs. Charles C. Leach	100.00
Elizabeth Annie Davies	100.00
H. C. Sweetzer, Admr.	100.00
Milon D. Brown	100.00
Mrs. Mary E. Davis	100.00
Wesley M. Wilder	100.00
William H. Saunders	100.00
William H. Saunders	25.00
William H. Saunders	50.00
John E. Wainwright	100.00
Mary F. Kelley	100.00
Mrs. Mary Barber	100.00
Agostino Dirubbo	25.00
Frank Barnard	100.00
Louis J. Perry	100.00
Mrs. C. S. Crane	100.00

A. G. and G. P. Burns	\$100.00
Allen, Hallas	100.00
Allen, Hallas	100.00
Mrs. H. S. Whittaker	100.00
Ida Fletcher	100.00
Isabella Williamson	100.00
Matilda Jones	100.00
Samuel A. Pickering	100.00
Miss Ellen A. Stillings	100.00
Sarah E. Lovejoy	100.00
Sarah A. Varney	100.00
Martha Clark	100.00
Georgia F. Gratto, Admx.	50.00
Emily C. Palm	100.00
Thomas Chalmers	100.00
James Johnston	100.00
Mrs. Flora Belle McCoy	100.00
James E. Mountford	100.00
Isabel Church	100.00
William A. Mack	25.00
John A. Weinbeck	100 00
John A. Weinbeck	100 00
Mrs. George O. Hutchins	100.00
Sarah J. Bowring	100.00
Sarah Dean	100.00
Annie Campbell	100.00
John A. Cates	100.00
Mrs. Georgia M. Stevens	100.00
Elizabeth M. Small	100.00
Mrs. T. H. Moore	100.00
Alphonse Hussey	50.00
James L. Jewett	100.00
Lillian M. Haskell	100,00
John Duckworth	100.00
Annie Johns	100.00
Mrs. Ellen Bee	100.00
William J. Hart	100.00
Stephen H. Jones	100.00
Mrs. James Hobson	50 00
Percy A. Platt	100.00
Osmer G. Clough	100.00
George G. Hanaford	100.00
Walter S. Miller	100.00
Caroline Hoyle	100.00

Miss G. A. Spinney	\$100.00
Mrs. W. E. Farrar	100.00
William H. Cottrell	100.00
Mrs. Lily J. Allen, Admx.	100.00
Ellen M. Marstin	200.00
Miss Katherine Kelly, Exec.	50.00
Elizabeth Shaw	50.00
Hugh Green	100.00
William H. Saunders	50.00
William H. Saunders	25.00
Ernest J. Bjorkman	100.00
Roland E. Stevens, Admr.	100.00
Minnie E. Parker	100.00
Mary E. Rowley	100.00
Annie N. Barr	100.00
Sarah A. Cummings	100.00
Ella J. Dingwell	50.00
John J. Harvey, Adm.	100.00
George E. Hutchins	100.00
Helen S. Burch	100.00
Marion B. McAuley	100.00
Leonard B. Wormall	100.00
Mrs. Anna Randall	100.00
Mrs. S. B. Butterworth	100.00
Johannah Prince	100.00
Gustave Anderson	100.00
McIntire and Wilson	100.00
Avidis M. Torigian	100,00
Mrs. Cornelia M. Canfield	50.00
E. A. Wilson	200.00
Thomas Shaw	100.00
George F. Garland	100.00
Alice J. Williamson	50.00
William H. Saunders	100,00
William H. Saunders	25.00
William H. Saunders	25.00
Leonard Morrison	200.00
Ernest L. Taylor, Admr	100.00
John J. Harvey, Exr.	100.00
Harriet A. Trenholm	100.00
Harriet A. Trenholm	100.00
Maria F. West	100.00
Mrs. Flora E. Severance	100.00
Abbie Jackson	100.00

A C D (# 100.00	
Agnes C. Porter	\$100.00	
Mrs. Frederick Chalk	100.00	
Margaret and David G. Jones	100.00	
Frank J. Burch	100.00	
Harriet A. Root	100.00	
Samuel Holgate	100.00	
McIntire & Wilson	100.00	
George A. Scribner	100.00	
Alice Sutcliffe	100.00	
Edgar J. Mellows	100.00	
Mrs. Robert H. Staples	100.00	
Ethel M. Trumbell	100.00	
Ethel M. Trumbell	100.00	
John Worth	100.00	
Thomas Duckworth (F. H. Hodgman)	200.00	
Mrs. Bertha N. Bell	100.00	
Thomas Duckworth (C. H. Whitney)	100.00	
Miss Angie Kimball	100,00	
Adelbert W. Walker	100.00	
John T. Wood	50.00	
William Arnold, Admr.	25.00	
Nancy L. Wilson	100.00	
Mrs. Annie L. Foster	100.00	
Mrs. Clara Wrigley	50.00	
Mrs. Lillian B. Flack	100.00	
Mrs. Lucia L. Bell	100.00	
Millie M. Field, Est.	100.00	
Isabel M. Berry	100.00	
Miss Elinda S. Armstrong	100.00	
Laura E. Haynes	100.00	
Mrs. Anders Thomasson	100.00	
Fred A. Bassett	100.00	
William H. Saunders	25.00	
Frank A. Griffin, Trustee	100.00	
Miss Zora Feindel	100.00	
Thomas Duckworth (Samuel Pouliot)	25.00	
George T. Butterworth	100.00	ф. 1.4.20° 00
		\$ 14,325.00
On hand December 31, 1920		\$141,065.00

The following amounts are invested for the care of burial grounds as follows:

Lowell Five Cents Savings Bank	\$ 17,125.000
Central Savings Bank	16,700.00
Merrimack River Savings Bank	17,050.00
Mechanics' Savings Bank	16,100.00
City Institution for Savings	19,400.00
Lowell Institution for Savings	16,425.00
Washington Savings Institution	16,775.00
Middlesex Safe Deposit & Trust Co	17,940.00
Old Lowell National Bank (Savings Dept.)	3,550.00
On hand December 31, 1920	\$141.065.00

Respectfully submitted,

FRED H. ROURKE,
City Treasurer.

GENERAL INFORMATION

CITY AUDITOR'S REPORT OF FUNDS HELD AND USED BY CITY

PROPERTY OWNED BY CITY
TABLES
LOANS
NEW HIGH SCHOOL

TOTAL VALUATION AND CITY DEBT, 1919 Real Estate and Personal Property Owned by the City

110001 1150000 and 1 of solidi 2 to porty o whoa by the	Olty
Personal Valuation Valuation Commissioner of Public Safety\$ 116,144.00 \$ 524,400.00	Total City Valuation
5 11 17 17 17 17 17 17 17 17 17 17 17 17	\$ 640,544.00
Commissioner of Finance	12,155.00
	2 220 107 00
and Licenses	2,220,185.00
Commissioner of Streets and High-	
ways	116,031.00
Commissioner of Water Works	
and Fire Protection	2,862,024.09
School Department	2,659,390.00
Miscellaneous	10,525.00
Total Valuation\$2,120,064.09 \$6,400,790.00	\$8,520,854.09
Gross City Debt	5,747,685.00
Excess in Valuation of all City Property over the Gross Debt	
	\$2,773,169.09
	Ψ2,770,100.00
PERSONAL PROPERTY IN CHARGE OF COMMISSIO	MER OF
PUBLIC SAFETY	MINIO OF
Mayor:	
Furniture in office, etc.	\$ 800.00
Health:	4 000.00
Furniture, etc., in office	177.00
Bacteriological Laboratory	148.00
Milk and Vinegar Office	860.00
Horses	7,000.00
Wagons and Sleds	6,000.00
Harnesses	,
Shop	1,500.00
Law:	2,000100
Furniture in office, etc.	500.00
Police:	
Furniture, etc., in offices	2,453.00
Equipment	,
Stable	,
Electrician's Department	
State Aid:	,
Furniture, etc., in office	200.00
Charity:	-00.30
Outdoor Relief	4.000.00
Hospital	27,000.00

\$ 85,144.00

CHARITY DEPARTMENT

Real Estate

Total Value	\$233,600.00 273,000.00 2,800.00 3,500.00 3,100.00 8,400.00	\$524,400.00
Land Value	\$22,300,00 3,000,00 2,800,00 3,500,00 3,100,00 8,400,00	\$43,100.00
sa	acres sq. ft.	
Λ rea	45.73 59.39 139,530 176,300 10.30 28.08	
Buildings Value	\$211,300.00 270,000.00	\$481,300.00
	Chelmsford St. Hospital Buildings	

Personal Property

\$ 4,000.00		\$31,000.00
Outdoor Relief	1103phtat	

PERSONAL PROPERTY IN CHARGE OF COMMISSIONER OF FINANCE

Auditor—Furn	iture	in	office,	etc.	 \$ 1,305.00
Assessors—	66	"	46	"	 1,100,00
Treasurer-	44	"	"	"	 1,000.00
City Clerk—	"	"	"	"	 550.00
Elections—	"	66	46	"	 7,500.00
Registrars-	"	"	"	"	 85.00
Supply-	"	"	44	"	575.00

\$12,155.00

PERSONAL PROPERTY IN CHARGE OF COMMISSIONER OF PUBLIC PROPERTY AND LICENSES

Building:	
Shop and Storehouses	\$ 10,500.00
Machinery, tools, etc.	1,270.00
Hardware	140.00
	500.00
Lumber	2,000.00
Election property	4,150.00
Election property	250.00
Coffins, stock and tools	3.180.00
Stable property	60.00
Masons' stock and tools	315.00
Pipers' stock	010.00
Painters stock and tools and unclassified	1,100.00
Office property	1,000.00
Cemetery	16,000.00
License Commissioners	850.00
Park:	0.200.00
Furniture, etc., in office, stable and yard	8,200.00
Smoke Inspector	70.00
Moths	1,800.00
Messenger:	4 000 00
Furniture in charge	1,300.00
Boiler room	3,100.00
Weigher	275.00
Sealer	900.00
Wires	400.00
Schools:	
Furniture, etc., in office	1,150.00
Horses, etc	1,000.00
Equipment, High School	10,000.00
Equipment, Industrial School	16,000.00

\$ 85,510.00

PUBLIC PROPERTY AND LICENSES DEPARTMENT

	Total Value	\$977,100.00	133,600.00	3,250.00 30,000.00	93,800.00	119,200.00
	Land Value	\$245,100.00	$73,550.00 \\ 3,450.00 \\ 3,300.00 \\ \end{bmatrix}$	2,050.00	25,400.00	28,350.00
		sq. ft.	3 3 3		ä	33
Real Estate	Area	61,280	16,345 4,537 4,382	5,150 area in street	72,500	80,980
Real	Value Bidg. \$492,000.00	240,000.00 49,700.00 600.00	3,000.00	850.00 30,000.00 4,800.00 9,600.00	6,000.00 48,000.00 42,000.00 3,600.00	3,000.00
	City Hall	St., Moody St. and Worthen St	Public Landing and Police Stable Land in rear Market St. Land in rear Market St. Wooden Building (polling booth)	Wooden Building (Old Fire Station) Land, Fletcher, Willie and Cross Sts. Comfort Station, Page St. Carriage Sheds 27, Story Brick Building, Office, Carpenter and Blacksmith Shop	Sprinkler Sheds	Shed (wood) 2 Story Building (Sewer Dept.) wood Land, Fletcher, Cross and Broadway Shed

PUBLIC PROPERTY AND LICENSES DEPARTMENT, Real Estate-Continued

Total Value	21,900.00 400.00 49,350.00 15,950.00	\$1,444,550.00
Land Value	2,700.00 40.00 49,350.00 9,350.00	\$443,000.00
Area	1.65 sq. ft. 76,789 " 6,622 "	
Carpenter and 3 Story Brick Building	Sheds 250.00 Rifle Range, Dracut 19,200.00 Magazine Building rear of Chelmsford St. Memorial-Auditorium 6,600.00 Garage 2-24 E. Merrimack St. 6,600.00	\$1,001,550.00

DEPARTMENT OF PUBLIC PROPERTY-PARK DEPARTMENT

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	Total Value	\$ 30,100,00	20,200,00	5,700.00	00.001	00.055,61	leased	1,000.00	154,800.00	100 00	500.00	250.00	150.00	150.00	3.050.00	150.00	leased	175.00	200.00	23.550.00	4,000.00	125,300.00	200.00	250.00	150.00	44.800.00	227,900,00	8,000.00	200.00	leased	5,900.00	2,250.00	1,750.00	\$690,125.00
	Value Land	\$ 13.100.00	29,200,00	5,200,00	10, 550	00.055,41	leased	1,000.00	154,800.00	100.00	500.00	250.00	150.00	150.00	2,000.00	150.00	leased	175.00	200,00	23,550.00	4,000.00	125,300.00	200.00	250.00	150.00	44,800.00	227,900.00	8,000 00	200.00	leased	5,900.00	2,250.00	1,750.00	\$672,275.00
	Feet	3 261.928	74 275	55 230	201,267	700,100	152,400	10,989		069	5.090	2,669	945	1,416	18,195	009	21,970	1,743	1,514	3,928	25,902		2,215	975	1,210		911,653	78,919	2,050	19,860	5,882	7,420	6,481	
Taratte	Area	45	+						34.40													11.39				26.00								
701	Valuation	\$ 17.000.00													\$ 8.50																			\$ 17,850.00
		Bath House	Belvidere Park	Chambers St. Playoround	Dalla Casuada Dismessinal	Fail Glouids I layslouid	Colonial Ave. Kiverbank	Coburn Square	Fort Hill Park	Glacial Oval	Harris Oval	Hillside Park	Hovey Square	Hutchinson Square	Lenox Square (barn)	Lincoln Square	Lucy Larcom Park	Mansur Square	Middlesex Square	Monument Square	Mt. Vernon Park	North Common	Parker Spaulding Park	Penniman Square	Princeton Square	Shedd Park	South Common	Tyler Park	Water Works Square	Varnum Ave. Riverbank	Varnum Park	N. E. cor. Mammoth Rd. and Riverside St.	S. W. cor. Mammoth Rd. and Varnum Ave.	

PERSONAL PROPERTY IN CHARGE OF COMMISSIONER OF STREETS AND HIGHWAYS

Streets:	
Store room	\$ 4,070.00
Yard	14,340.00
Shop	2,000,00
Stone	6.780.00
Blacksmith Shop	890.00
Tool House	568.00
Dracut Ledge	14,700.00
	21.788.00
Horses and Harnesses	
Miscellaneous	2,200.00
Watering Streets:	10 (25 00
Carts, etc.	12,635.00
Sewer:	
Office	725.00
Miscellaneous	19,850.00
Lighting Streets	10,025.00
Engineer:	· ·
Furniture in office, etc.	2,560.00
Tools and materials	2,900.00
	\$116,031.00

WATER WORKS DEPARTMENT

	Total Value	\$ 4,400.00	1,100.00	2,800.00 $1,400.00$	4,800.00	550.00 12.550.00	4,400.00		141,700.00	18,250.00	00000	23,000.00		204,200.00
	Value Land		6	\$ 2,800.00 300.00	2,600.00	550.00	4,400.00		13,000.00	1,100.00 650.00)	25,250.00	3,850.00		32,600.00
	Λ rea	Right of way	3	sq. 1t.	3 3	: 3	acres		sq. ft.	. 33	3 3	\$		3
Real Estate	Ā		0000	5,833	17,252	27,163 11	15,540		51,101	32,470	1,684,930	1,531,109		651,600
E E	Value Bldgs.	\$ 4,400.00	1,100,00	1,100.00	2,200.00		11,000.00 110,000.00	16,500.00	2,200.00	10,000,00	3,300.00	82.500.00	77,000 00 1,100.00	11,000.00 27,500.00
		Terminal Chamber (brick) Conduit St Semall Brick Buildings manhole and blow-	off, Conduit St.	Sarah Ave. and Moody St.	shom and Gardner Aves	Fels Fark Boulevard and Boulevard St.	Inlet Chamber (brick) Varnum Ave	Stable and Sheds Store House and Sheds. West Sixth St	Hampshire St. and Jewett St.	In Town of Dracut	Uniping Station and Chimney, Fram and Chelmsford Sts.	I Town of Chemston Sts. In Town of Chemsford No. Service Reservoir (new)	Low Service Reservoir Dwe ling House	Sate House, Beacon St

WATER WORKS DEPARTMENT, Real Estate-Continued

	Value Bidgs.	Area	2	Value Land	Total Value
Wooden Building, Boulevard,	550.00	22.71 acres	acres	9,100.00	37,150.00
structure) Vacant Land between River and Varnum	8,800.00	(Balance of la	(Balance of land gone to Bath House)	House)	
Ave. Cushing Farm Buildings (sold since April 1, 1920)		101,882	sq. ft.	3,050.00	11,850.00
1, 1920. Dwelling House (sold since April 1, 1920). Dwelling House (sold since April 1, 1920) Purification Plant	900.00	55.78 34.71	3 3	22,300.00 13,900.00	22,300.00 138,900.00
	\$501,750.00			\$137,600.00	\$639,350.00

Personal Property

Pumps, Engines, Machinery, Pipes, Conduits, Mains and other Personal Property\$1,602,276.67

FIRE DEPARTMENT

Personal Property

Chief's Office Repair Shop Engine Co. No. 1, Gorham Street "No. 2, Branch Street "No. 3, Palmer Street "No. 4, High Street "No. 5, Mammoth Road "No. 6, Fletcher Street Hose Co. No. 7, Central Street "No. 8, Merrimack Street "No. 9, Lincoln Street "No. 10, Fourth Street "No. 11, Lawrence Street "No. 12, West Sixth Street "No. 12, West Sixth Street "No. 2, Westford Street "No. 3, Palmer Street "No. 4, West Sixth Street "No. 4, West Sixth Street	\$	Valuation 7,619,32 579,00 8,767,13 9,389,00 7,773,30 5,172,50 2,950,90 6,592,60 2,566,95 2,000,85 2,539,13 3,955,30 1,966,60 2,433,65 2,429,25 3,517,91 5,169,55 6,599,78
" No. 3, Palmer Street		5,169.55
Total Fire Dept. Personal	\$1	133,647.42

FIRE DEPARTMENT

	Total Value \$ 32,600.00 25,100.00	128,600.00 31,950.00 18,250.00	52,300.00	14,700.00 38,900.00 7,350.00	21,700.00 31,200.00 46,250.00	23,000.00 14,850.00	\$486,750.00
	Value Land \$ 1,600.00 3,500.00	47,600.00 } 1,950.00 850.00	$24,600.00$ $3,700.00$ $\}$	2,100.00 11,300.00 150.00	2,500.00 1,200.00 650.00	1,400.00 1,650.00	\$113,750.00
state	Area 5,292 feet 8,829 "	7,326 \\ 5,565 \\ 5,341 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	123,126 \ " 18,985 \ "	3,500 " " 3,060 " " 1,930 "	6,993 8,058 9,390	4,610 " 1,645 "	
Real Estate	Value Bldgs. \$31,000.00 21,600.00 72,000.00				19,200.00 30,000.00 45,600.00	21,600.00 13,200.00	\$373,000.00
	Engine House, Gorham St	Engine House, High St. Engine House, Mammoth Road	Engine House, Fletcher St	Engine House, Central St Engine House, Merrimack St Engine House, Lincoln St	Engine House, Fourth St. Engine House, Lawrence St. Engine House, West Sixth St.	Engine House, Westford St Engine House Warren St	

SCHOOL DEPARTMENT

	Total Value	\$ 72,135.00	272,000.00	123,900.00	30,000.00	185,250.00	3,000.00	87,315.00	27,500.00	24,000.00	32,000.00	155,150 00	165,000.00	138,600,00	124,800,00		30,900.00	100,200,00	145.800.00		31,600.00		130,950.00	110,890.00	11,200.00	16,900.00	19,000.00	Ì
	Land Value	\$ 72,135.00	32,000 00	25,100.00	18,000,00	10,250.00	3,000.00	9,315.00	3,500.00	поп .		83,150.00	15,000.00	18,600.00	4,800.00		11,700.00	10,200.00	5,800.00	1,350.00 1	150.00 }	100.00	10,950.00	2,890,00	1,600.00	2,500.00	1,000.00	
	~	0 sq. ft.		,, 2	" 9	,, &	, 0	"	,, 2	Ld. taken with So. Common	1 sq. ft.		" 0	;	*			" 0	" 0	" 0	" 0	*,	, ,	" 0	*	" 6	» O	
Real Estate		72,140	31,194	16,737	22,816	68,418	10,000	43,187	17,55	Ld.	20.011	19,562	100,000	123,924	48,084		15,63	51,07	36,16	33,90	3,55	11,72	47,625	72,24	13,18	8,53	20,00	
Re	Bldgs. Value		\$240,000.00	98,800.00	12,000,00	175,000.00		78,000.00	24,000.00	24,000.00	18,000.00	72,000.00	150,000.00	120,000.00	120,000.00	00 009 6	00.009,6	90,000.00	140,000.00	30,000.00			120,000 00	108,000.00	0,009,6	14,400.00	18,000.00	
		Land, Kirk and Anne Sts.	High School, Kirk and Anne Sts.	High School Annex, John and Paige Sts	High School (overflow) Kirk St.	Bartlett School (new) Wannalancit St	Land, Clark St.	Butler School, Gorham St.	Colburn School, Lawrence St.	Edson School, Highland and South Sts	Franklin School, Branch St.	Green School, Merrimack St.	Greenhalge School, Ennell St.	Morev School, Pine St. (unfinished)	Lincoln School, Chelmsford St.	Mann School, Broadway (brick)	Wooden Building, Broadway	Moody School (new) Rogers St.	Pawtucket School, Mammoth Road	Riverside School, Woburn St.			Varnum School, Myrtle St.	Washington School, Lang St.	Agawam School, Agawam St. (Primary)	Ames St. Primary	Billings St. Primary	

SCHOOL DEPARTMENT. Real Estate— Continued

Total Value 14,900.00	29,300.00	62,650.00	18,450.00	29,450.00	28,000.00	14,500.00	31,600.00	2,000.00	4,900.00	13,300.00	2,600.00	20,500.00	11,000.00	8,750.00	5,700.00	24,300.00	4,000.00	3,500.00	19,750.00	22,800.00	28,150.00	26,950.00	9,150.00	12,450.00	24,800.00	15,050.00
Land Value 2,900,00	5,300.00	2,650.00	4,450.00	3,450.00	2,000.00	4,500.00	5,100.00	2,600.00	1,300.00	3,700.00	1,400.00	6,100.00	2,000.00	350.00	200.00	2,700.00	1,000.00	1,100.00	750.00	1,200.00	3,150.00	2,450.00	1,350.00	3.950.00	3,200.00	550.00
Area 9.694 sq. ft.	9,625	., 308	11,100 "	9,857	8,048 "	17,927	8,500	7,428 "	4,255	9,220	6,944 "	6,120 "	10,232 "	12,000	10,065	10,730 "	,, 000'9	3,507	19,120	30,400 "	9,040	16,239 "	11,367 "	,, 088.6	26,603 "	19,046 "
Value Bldgs. \$ 12.000.00	24,000.00	60,000.00	14,000.00											8,400.00	5,000.00	21,600.00	3,000.00	2,400.00	19,000.00	21,600.00	25,000.00	24,500.00	7,800.00	8,500.00	21,600.00	14,500.00
Central St. Primary	Cabot St. Primary	Carter St. Primary	Charles St. Primary	Colburn Primary, Charles St.	Cross St. Primary	Dover St. Primary	Favor St. Primary	Fayette St. Primary	Grand St. Primary	High St. Primary	Howard St. Primary	Kirk St. Primary	Lakeview Ave. Primary	Lexington Ave. Primary	London St. Primary	Lyon St. Primary	House 16 Lyon and School Building	Mammoth Road Kindergarten	Middlesex Village Primary	Moody Street	Morrill School, Common Street	Laura E. Lee School	Powell St. School	Pond St. School	Pine St. School	Sycamore St. School

SCHOOL DEPARTMENT, Real Estate-Continued

\$2,605,090.00	\$441,990.00		\$2,163,100.00
Total V alue 12,650.00 13,900.00 3,250.00 10,400:00 32,300.00	2,150.00 1,900.00 750.00 1,900.00 8,300.00	Area 10,730 " 18,903 " 15,211 " 12,913 "	Tenth St. School 10,500.00 Weed St. School 12,000.00 West London St. Annex Primary 2,500.00 West Sixth St. Primary 8,500.00 Worthen St. Primary 2,4,000.00

SCHOOL DEPARTMENT-Personal Property

MISCELLANEOUS REAL ESTATE

Tenth Street in Lowell Tenth Street in Dracut Harris Land in Dracut Parker Land in Dracut Hildreth Land in Dracut Meadow Land in Dracut Swan Land in Dracut S. S. Rogers St. N. S. First Street W. S. Billerica Road Spruce St. Clark Road	Area 40,260 175,985 28 20 17 5 5 269 57,768 145,413 17,457 3	sq. ft. acres " " sq. ft. " sq. ft. " acres	Bldgs. Value \$ 800.00 3,500.00 600.00 1,400.00 275.00 200.00 300.00 1,500.00 400.00 150.00 900.00
Cark Road	Ü	acres	\$ 10.525.00

CEMETERIES DEPARTMENT

Various tools and supplies		\$	8.027.73
Fencing:			,
Edson Cemetery	\$7,355.00		
Gates	2,500.00		
Westlawn	3,000.00		
Old English	1,000.00		
School Street (stone)	1,500.00		
Pawtucketville	170.00	1	5,525.00
Chapel:	170.00	1	3,323.00
(Stone, slate roof)			4,000.00
Settees			100.00
3 Chairs			10.00
1 Desk			5.00
1 Bible			3.00
4 Gas Heaters			25.00
1 Pedestal			28.00
Receiving Tomb			1,000.00
Office Building and Waiting Room (wooden)			3,500.00
Heating Plant			200.00
6 Chairs			8.00
3 Desks			85.00
2 Tables			15.00
1 Book Case			25.00
1 Clock			5.00
1 Mirror			1.00
1 Safe (vault)			200.00
1 Typewriter			25.00
1 Filing Cabinet			175.06
Rest Shelter:			17 3.00
Westlawn—(Cement and Tile)			1,000.00
	_	\$ 3.	3,962.73

LOANS NEGOTIATED BY THE CITY SINCE 1900 AND HOW EXPENDED

Year	Loans	Improvements	Current Expenses	Waterways
1900	\$288,500.00	\$191,000.00	\$ 22,500.00	\$ 75,000.00
1901	256,100.00	206,100.00	50,000.00	' '
1902	222,885.00	186,385.00	36,500.00	
1903	387,320.00	183.820.00	203,500.00	
1904	254,414.00	167,714.00	86,700.00	
1905	360,150.00	232,150.00	128,000.00	
1906	247,460,00	149,440.00	71,000.00	27,000.00
1907	365,500.00	229,500.00	136,000.00	
1908	304,413.00	189,413.00	115,000.00	
1909	172,900.00	172,900.00	none	•
1910	241,000.00	161,000.00	20,000.00	60,000.00
1911	412,450.00	251,450.00	61,000.00	100,000.00
1912*	546,700.00	230,700.00	241,000.00*	75,000.00
1913	542,700.00	320,700.00	147,000.00	75,000.00
1914 -	343,500.00	235,500.00	none	90,000.00
1915	493,000.00	34,300.00	none	150,000.00
1916	647,100.00	592,100.00	none	55,000.00
1917	780,000.00	780,000.00	none†	
1918	177,000.00	147,000.00	30,000.00	
1919	833,000.00	753.000.00	none	80,000.00
1920	1,487,000.00	1,472,000.00	none	15,000.00

*Temporary Loan Deficiencies of previous years—\$200.00. †\$15,000.00—Spanish Influenza Epidemic; \$15,000.00 German War.

EXPENDITURE TAX BATE VALUATION FROM 1860

	EXIDADIIONE, IAX RAI	E AUTOUTION	
Year	P 40	/T D .	Total
1860	Expenditures \$ 267,192,07	Tax Rate \$ 8.40	City Valuation
1865			\$ 22,125,176.00
	756,342.81	14.60	21,076,360.00
1870	778,636.03	13.90	25,972,488.00
1875	1,162,922.95	16.20	38,690,495.00
1880	1,398,683.48	16.20	41,102,016.00
1885	1,833,483.69	16.20	51,351,780.00
1890	3,613,584.04	16.00	62,353,612.00
1895	2,903,410.60	18.00	68,885,732.00
1900	2,353,844.41	18.80	71,529,515.00
1905	2,738,502.84	20.20	71,645,718.00
1906	2,795,000.75	19.60	74,945,640.00
1907	2,718,874.34	19.40	76,079,750.00
1908	3,046,987.96	20.40	77,855,891.85
1909	2,791,607.95	19.60	79,695,960.00
1910	2,887,399.24	19.60	80,392,890.00
1911	2,873,195.26	18.90	82,772,900.00
1912	2,847,482.13	19.00	85,384,085.00
1913	3,112,853.71	19.40	87,872,600.00
1914	3,093,197.15	21.90	90,039,890.00
1915	3,207,407.84	20.80	82,954,197.00
1916	3,443,043.82	21.20	94,503,423.00
1917	3,835,043.80	23.40	90,820,901.50
1918	4,026,944.67	23.80	98,774,850.00
1919	4,462,739.28	26.00	107,269,813.00
1920	7,452,446.61	27.20	123,803,827.00
	,,	0	0,000,027.00

DEBT MATURING IN 1921

nent	Date of Loan	Rate	Amount of Loan	Amount Maturing
High School School School School Houses School Houses School Houses School Houses School Houses School Houses School Houses School Houses School Houses School Houses School Houses School Houses School Houses School Houses	1, 1891	4	\$150,000.00	Sinking Fund
Sewer Construction	1, 1911 1, 1911	44	50,000.00 118,500.00	\$ 5,000.00 11,850.00
Shedd Park, Department Deficiencies Fire Houses Commended Park	1, 1911	4	44,000.00	4,400.00
Bridge Repairs, SchoolsSeptember 1, 1911	1, 1911	4	23,500.00	2,350.00
Streets, Sewers	1, 1911	4	73,450.00	7,345.00
Macadamizing May 1, 1916	1, 1916	4	61,000.00	12,200.00
New SidewalksApri	1, 1919	41/2	6,000.00	3,000.00
New SidewalksSeptember 1, 1919	1, 1919	41/2	4,000.00	2,000.00
WATER	WATER WORKS DEBT			
New Engine, New Reservoir	1, 1911 1, 1916	44	\$100,000.00 55,000.00	\$ 10,000.00 11,000.00

HIGH STREET CHURCH CLOCK

It was to be paid for by popular subscription, but after some time Mr. Hedrick was obliged to make the final payments and it became his property. In 1877 the City Government, by resolution, purchased the clock of Mr. Hedrick. The terms of purchase required the City to keep it in repair at the High Street Church.

COST OF CITY HALL AND MEMORIAL BUILDING

1889-1895—Cost of Coty Hall	\$382,317.48 175,928.45 17,219.43
Total	\$575,465.36

PAYMENTS MADE TO SINKING FUNDS IN 1920

City Hall and Memorial Buildings, due 1920 High School, due 1921 New School Houses, due 1926 Water Loans, due 1920		\$ 450,000.00 200,000.00 150,000.00 1,000,000.00
•	\$ 91,000,00	\$1,800,000,00

PROPERTY EXEMPT FROM TAXATION

Literary Institutions Benevolent Institutions Temperance Institutions Charitable Institutions Scientific Institutions Houses of Religious Worship	\$ 140,846.90 35,423.62 3,365.85 873,222.67 406,420.29	\$ 466,895.00 97,750.00 16,350.00 487,440.00 486,650.00 2,322,750.00	\$ 697,641.90 133,173.62 19,715.85 1,360,662.77 893,070.29 2,322,750.00
	\$1,459,279.43	\$3,877,835.00	\$5,327,114.43

The total real estate area exempt, 115,806,1000 acres.

Jonathan Tyler Worthy Poor Trust Fund

Deposited with the Washington Inst. for Savings, Book No. 23549.

4 per cent only.

Thomas Nesmith Fund

\$25,000.00 Annual Intrest, \$1,500.00

Resolution, numbered 57, passed by the City Council, November, 1870: "That the sum of \$25,000.00 be accepted by the City and that the interest, at the rate of 6 per cent, be paid to the trustees, and that they in turn pay to the Ministry-at-Large or to like people, as they may decide. Said sum to be used for people in temporary need of charity without distinction of race, color or religion. Trustees: A. K. Chadwick, A. G. Cumnock, Thos. Nesmith, G. R. Chandler, Treasurer. In case of a vacancy, the remaining trustees shall report to the Justices of the Court' who shall appoint a successor to fill said vacancy." Not a trust fund,

Carney Medal Fund

Received of James G. Carney, in 1858 and 1859, the amount of \$200, which is to remain a perpetual debt of the City forever; the interest to be applied in payment for the "Carney Medals" to the departments of the High School (annually).

For the information of the citizens of Lowell the Auditor respectfully refers them to the "Annual Report of the School Committee," for the year 1859, where all the correspondence between the donor and the recipient may

be found.

Thomas Nesmith Fund

\$1,000.00 Annual Interest \$60.00

Resolution, numbered 54, passed by the City Council, April, 1870: "That the City of Lowell be appointed trustee of the sum of \$1,000.00, and the City Treasurer is authorized to pay to the High Street Church the interest of said sum at the rate of 6 per cent. forever. Said sum to be used by the Pastor and Deacons of said Church to sustain the Sunday School and its library for the moral and religious instruction of the children." Not a trust fund.

MEMORIAL AUDITORIUM

	Credit
June 1, 1919, Loan Cash received for rentals during 1919 Sept. 5, 1919, Cash received for sale buildings Interest on bank balances during 1919 January, 1920, Transfer May 1, 1920, Loan September 1, 1920, Loan Cash received for rentals during 1920 Interest on bank balances during 1920	\$140,000.00 1,242.05 3,698.00 289.00 189.29 200,000.00 200,000.00 411.00 71.63
	\$545,900.97
•	
Expenses Debit	
Labor \$ 59.97 Architectural Services 33,001.64 Contracts 233,254.12 Land and Buildings 127,443.73 Services 250.00 Transfers 189.29 All Other Expenses 582.56	\$394,781.31
Balance based on authorized and negotiated loans	\$151,119.66

NEW HIGH SCHOOLS

T	(Jre	dit
Loans: November 1, 1915 February 1,1916 March 1, 1917 April 1, 1920 September 1, 1920 Receipts (Sale Buildings)		\$	125,000.00 100,000.00 75,000.00 300,000.00 400,000.00 4,542.50
		φı	,004,542.50
Expenses	Debit	;	
Architect Auctioneer Contract Contract Land Steel All Other Expenses	\$ 39,374.01 338.85 415,035.03 8,163.93 181,414.16 73,016.97 15,159.69	\$	732,502.64
Balance based on authorized and negotiated loans		\$	272,039.86

REPORT OF AN AUDIT

OF THE

ACCOUNTS

FOR THE

CITY OF LOWELL

YEAR ENDING

DECEMBER 31, 1920

MADE BY

EVERETT E. TARBOX

CERTIFIED MUNICIPAL ACCOUNTANT

EVERETT E. TARBOX

EXPERT MUNICIPAL ACCOUNTANT

Office 101 Tremont Street Room 410 Boston, Mass., Telephone Main 2365

Hon. James E. Donnelly, Commissioner of Finance, of the City of Lowell, Mass.

SIR:-

I have to report the completion of an audit of the Municipal accounts of the City of Lowell, covering the financial transactions of the year 1920 in all of its departments, in accordance with the provisions of Section 35, of the City Charter.

The financial records of every City Department were examined, checked, added and verified, and compared with the ledgers kept by the City Auditor's office; and a proof obtained of the entire cash receipts and disbursements of the City Treasurer during the fiscal year of 1920, as recorded on his cash books.

All bills made out by any department for services rendered or for materials furnished were listed and checked to the departmental records, and collections were checked with the records of the City Treasurer's office.

The difference between these two amounts was proved by listing the unpaid bills due the City at the end of the year, and comparing same with the accounts kept by the City Auditor.

This method insures the City against loss of revenue from departmental accounts receivable; because all money due the City from this source must be collected or legally abated, before they can be taken from the City Auditor's Ledgers. The correctness of these accounts was proven by the annual audit, just completed.

Outstanding Taxes and Special Assessments were listed, and the total amount of each year's levy was proved by comparison with the records of the City Auditor's ledger, and the records of abatements kept by the Assessors' Office.

All disbursements of cash made by the City Treasurer must, of course, bear the signed approval of the departmental heads, and the signed authorization of a majority of the Municipal Council; therefore, it is a simple matter to prove the correctness of the Treasurer's payments by checking the bills paid to the authorized Treasury Warrants, made by the Auditor, and comparing the total amount of the Warrants with the total cash payments made by the Treasurer during the year.

A municipal audit, to be successful, must do more than this. It must conserve the assets of the City, and prove that all of its income is collected. This is a more difficult task, and without an excellent accounting system this would be impossible.

The automatic checks provided by the present accounting system in the Auitor's Ledgers will insure the City against loss of revenue, if the annual audit is properly conducted.

I can assure you that all revenue due the City has been collected, with the exception of the outstanding bills due at the time of the last audit, as listed by me and proved.

A summary of the financial operations of the various departments, covering the transactions of the entire fiscal year of 1920, as examined and proved, is herewith presented, including Trust Funds and Sinking Funds.

A Balance Sheet, made from audited figures, is appended to this report, showing the true financial condition of the City on December 31st, 1920, including both its Revenue and Non-Revenue assets and liabilities.

Mayor and Municipal Council:—Appropriations, transfers of appropriations and Loans Authorized during the year 1920 were listed from the official records of the City Clerk, and checked to the Auditor's Journal and General Ledger. These were found to have been correctly entered, as voted by the Council.

Loans Authorized during the year 1920 were 17 in. number, and the total amount authorized was \$2,137,000.00. Following is a detailed summary of all loans authorized during the year 1920:—

TD	
Date Purpose	Amount
January 24—Water Extension and Equpiment	\$ 15,000.00
January 27—Sewer Construction	50,000.00
March 20—High School Construction	400,000.00
March 20—High School Construction	600,000.00
March 20—High School Construction	750,000.00
March 27—Street Paving	80,000.00
March 27—Street Macadamizing	40,000.00
April 10—Sidewalk Construction	10,000.00
April 24— Bridge Construction	20,000.00
June 28—Bridge Construction	72,000.00
July 24—School Construction	10,000.00
August 21—Sidewalk Construction	6,000.00
August 21—Land for Parks	12,000.00
August 21—Widening Locke Street	12.000.00
September 18—Sewer Construction	20,000.00
October 9—Street Macadamizing	20,000.00
November 22—Sewer Construction	20,000.00

All of the Loans Authorized, as listed above, were issued during the year, with the exception of the total amount authorized for High School Construction. For this purpose, only \$700,000.00 was borrowed. In addition \$400,000.00 was borrowed for Auditorium Construction, making the total amount borrowed during the year \$1,487,000.00.

The loan authorized for building the Auditorium was May 20, 1919, amounted to \$1,000,000.00, and there was \$140,000..00 borrowed during 1919. Therefore, the Loans Authorized and not issued on December 31, 1920 were:—

Auditorium	460,000.00
Total	\$1,510,000.00
The total appropriations from revenue, ordered	by the Municipal
Council during the year, were as follows:—	
Annual Budget	3,468.350.00
Additional Appropriations from Revenue	166,324.00
State & County Taxes and Assessments	550,373.02
Cash Recepits Appropriated for Revenue	29,438.13

This total does not include the receipts of the Water and Cemetery Departments, which departments are supposed to be self-supporting. The receipts appropriated for their use were as follows:—

Water Department \$371,942.08 Cemetery Department 36,554.52

Mayor's Department:—The receipts for the issuance of licenses for Sunday Concerts, for which this office is directly responsible, amounted to \$3,688.00, and this amount was paid to the Treasurer, and duly reported to the City Auditor.

Auditor's Department:—The books and accounts kept by this office during the year were checked, added and verified.

The appropriation ledger was checked in detail, and the total transactions of every department and account were listed, showing appropriations, receipts credited to appropriations, transfer credits and debts, both municipal and departmental; payments of cash, and the appropriation balances of each account at the end of the fiscal year.

By this method a proof was obtained that the orders of the Municipal Council had been carried out, and that no money had been paid out except such as had been duly authorized by the Council.

The Treasurer's records were found to be in agreement with the payments as shown on the Auditor's appropriation ledger, and the correctness of this book was proven by the controlling account in the General Ledger.

The General Ledger was examined and checked in detail, and a trial balance drawn from same proved to be correct and in balance.

The Accounts Receivable Ledger, showing the details of all departmental accounts receivable, was examined and checked. The outstanding accounts were listed and verified and found to agree with the controlling account in the General Ledger.

At the end of the financial year, which, according to Section 32 of the City Charter, ends with the last day of December of each calendar all unexpended revenue appropriation balances should be closed and the amount of all such balances credited to the revenue surplus account of City.

The following table shows a classified summary of the total cash receipts and the total revenue and non-revenue payments made by the Treasurer's office during the year, as proved by the examination of the records of all other departments, and checked to the books of the City Auditor.

The addition to these totals, of the cash on hand at the beginning and end of the fiscal year, reveals a proof of the total cash transactions of the Treasurer's office, and of his cash balance at the end of the year 1920.

CITY OF LOWELL Summary of Cash Receipts and Payments, 1920.

Receipts	;	Payments	S
Taxes	\$3,255,652.61 549,203.16 994.68 14,614.05 9,783.06 7,072.47 36,410.35 4,347.88 21,975.47 8,523.48 2,358.08 13,181.78 19,002.55 34,786.97 5,410.46 372,011.63 18,659.02 65,062.86 4,498,558.80 1,464,325.00 5,854.82	Payments Revenue Appropriations	\$ 6,107,011.66 1,269,553.32 2,600,000.00 298.49 14,325.00
Total Receipts Cash on hand January 1st, 1920		Total Payments Cash on hand December 31st, 1920	\$ 9,991,188.47 809,259.32 \$10,800,447.79

Treasurer's Department:— The bocks of the Treasurer's and Collector's office were examined, checked and verified, and all cash transactions were compared with the Auditor's ledgers.

Cash receipts were proven by auditing the financial records of all other City Departments, in comparison with the books of the City Auditor, including both receipts collected by the Treasurer and Collector in payment of Accounts Receivable, and also collections made by other departments direct and for which no bills were sent out. This latter item, includes fees for Licenses and Permits, and cash payments for departental services.

The accounting records were found to be in excellent condition, and easily proved. The financial transactions of this office are handled in an efficient and systematic manner, with the result that correct information regarding the public finances of the City is readily obtainable.

The cash in the Treasurer's office was personally counted and balanced on January 24th, 1921, and a reconciliation effected back to

January 1st, 1921, as follows:—		
Cash in Drawer	•	\$ 2,118.30
Cash in Safe		6,959.33
.Cash in Banks (per Treasurer's Cash Book):		
Lowell Trust Co.	\$ 112,139.24	
Union National Bank	\$ 112,689.48	
Old Lowell National Bank	112,585.22	
Middlesex Trust Co	112,627.78	
Appleton National Bank	112,793.13	
Wamesit National Bank	111,913,97	
Old Lowell National Bank (Special)	375.42	
First National Bank of Boston	957.08	
		\$ 676,081.32
Cash Balance, Janary 24th, 1921		\$ 685,158.95
RECONCILIATION		
Cash on hand, January 1st, 1921	\$ 809,259.32	
Receipts, January 1 to 24, 1921	216,481.85	
Payments, January 1 to 24, 1921	,	\$ 340,582.22

Cash on hand, January 1st, 1921	\$ 809,259.32	
Receipts, January 1 to 24, 1921	216,481.85	
Payments, January 1 to 24, 1921		\$ 340,582.22
Cash on hand, January 24th (as counted)		685,158.95

\$1,025,741.17 \$1,025,741.17

PROOF OF BANK BALANCES

January 1st. 1921.

,	andary 13t	, 1521.	
Depository	Bank Statement	Treasurer's Books	Outstanding Dec. Int. Checks Credited in Jan.
Lowell Trust Co	\$101,778.12	\$101,476.29	\$ 301.83
Union Nat. Bank	256,384.34	256,317.96	66.38
Old Lowell Nat. Bank	122,112.36	122,111.36	1.00
Middlesex Trust	165,560.46	162,781.14	2,779.32
Appleton Nat. Bank	102,793.13	102,793.13	
Wamesit Nat. Bank	102,913.97	102,913.97	
First Nat Bank	18,056.72	18,041.75	\$ 14.97
Old Lowell Nat. Bank	375.42	374.93	.49
	\$869,974.52	\$866,810.53	\$ 3,148.53 \$ 15.46

. 15.45

\$869,974.52 \$869,974.52

RECONCILIATION OF BANK ACCOUNTS

Depository	Bank Balances January 1, 1921	Deposits Jan. 1, - 24	Checks Drawn Jan. 1, - 24	Treasurer's Balance Jan. 24
Lowell Trust Co	\$101,476.29	\$ 28,000.00	\$ 17,337.05	\$112,139.24
Union Nat Bank	256,317.96	27,895.32	171,523.80	112,689.48
Old Lowell Nat. Bank	122,111.36	240,473.86	250,000.00	112,585.22
Middlesex Trust Co	162,781.14	200,002.16	250,155.52	112,627.78
Appleton Nat. Bank	102,793.13	28,000.00	18,000.00	112,793.13
Wamesit Nat. Bank	102,913.97	28,000.00	19,000.00	111,913.97
First National Bank of				
Boston	18,041.75	14.97	17,099.64	957.08
Old Lowell Nat. Bank	374.93	.49	•	375.42
	\$866,810.53	\$552,386.80	\$743,116,01	\$676,081.32
	552,386.80	, ,	676,081.32	,
	\$1,419,197.33		\$1,419,197.33	

The following table shows the entire receipts and disbursements of the City Treasurer's office during the year 1920, by months, and the total amounts added to the cash on hand at the beginning and end of the year, prove that the balances are correct.

Months	Receipts	Payments
January	\$ 173,110.22	\$ 247,212.51
February	356,970.02	372,460.44
March	536,184.68	581,636.65
April	760,937.97	502,841.57
May	834,223.54	783,876.76
June	530,089.62	514,388.60
July	309,835.84	531,731.52
August	729,088.43	662,279.01
September	740,032.92	399,596.67
October	3,261,800.97	2,387,624.52
November	1,208,156.18	1,785,074.63
December	967,358.79	1,222,465.59
Cash on hand Jan. 1, 1920	\$10,407,789.18 392,658.61	\$9,991,188.47
Cash on hand Dec. 31st, 1920		809,259.32
	\$10,800,447.79	\$10,800,447.79

The following tables show a summary of the transactions during the year, on account of taxes, street sprinkling, moth, sewer and sidewalk assessments, including cash receipts, abatements, and the uncollected accounts December 31st, 1920, and a proof of same.

Outstanding taxes, including moth and street sprinkling assessments, were verified by mailing notices to a representative list of over 300 delinquent tax payers, asking for a verification of the charges outstanding against them.

Five of these notices were returned, unopened. All replies received proved that none of the outstanding accounts on the books of the Collector had been paid, and that the accounts were correct.

TAXES 1915.

STREET SPRINKLING 1915. 1,069.64	Uncollected, Jan.1 1920 (per Auditor's Ledger)	5	1,069.64		
STREET SPRINKLING 1915. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) \$ 14.55 No collections, no abatements. Uncollected, Dec. 31, 1920 (per detailed list)	No collections, no abatements.				** * * -
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) \$ 14.55 No collections, no abatements. Uncollected, Dec. 31, 1920 (per detailed list) 14.55 TAXES 1916. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) \$ 8,689.64 Collections, Jan. 1, to Dec. 31, 1920	Uncollected Dec. 31, 1920 (per detailed list)		1,069.64		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) \$ 14.55 No collections, no abatements. Uncollected, Dec. 31, 1920 (per detailed list) 14.55 TAXES 1916. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) \$ 8,689.64 Collections, Jan. 1, to Dec. 31, 1920					
TAXES 1916. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1, to Dec. 31, 1920	STREET SPRINKLING 191	15.			
TAXES 1916. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1, to Dec. 31, 1920	Uncollected, Jan. 1, 1920 (per Auditor's Ledger)	\$	14.55		
TAXES 1916. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1, to Dec. 31, 1920	No collections, no abatements.				
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1, to Dec. 31, 1920	Uncollected, Dec. 31, 1920 (per detailed list)		14.55		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1, to Dec. 31, 1920					
Collections, Jan. 1, to Dec. 31, 1920	TAXES 1916.				
Uncollected, Dec. 31, 1920 (per detailed list)	Uncollected, Jan. 1, 1920 (per Auditor's Ledger)			\$	8,689.64
TAXES 1917. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1 to Dec. 31, 1920	Collections, Jan. 1, to Dec. 31, 1920	\$	2.00		
TAXES 1917. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1 to Dec. 31, 1920	Uncollected, Dec. 31, 1920 (per detailed list)		8,687.64		
TAXES 1917. Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1 to Dec. 31, 1920		_	0.600.64	<u>-</u>	0.600.64
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1 to Dec. 31, 1920		\$	8,689.64	Þ	8,089.04
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1 to Dec. 31, 1920	TAXES 1917.				
Collections, Jan. 1 to Dec. 31, 1920				\$	14 741 89
Abatements, Jan. 1 to Dec. 31, 1920		\$	399.49	Ψ	11,7 11.02
Uncollected, Dec. 31, 1920 (per detailed list) 6.00 \$ 14,741.89 \$ 14,741.89	· ·	т			
\$ 14,741.89 \$ 14,741.89			6.00		
BAOTH 4047		\$	14,741.89	\$	14,741.89
MOIH 1917.	MOTH 1917.				
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) \$ 13.85	Uncollected, Ian. 1, 1920 (per Auditor's Ledger)			\$	13.85
Abatements, Jan. 1 to Dec 31, 1920				Ÿ	

TAXES 1918.

TAXES 1910.		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$194,229.05
Collections, Jan. 1 to Dec. 31, 1920	\$178,305.92	
Abatements Jan. 1 to Dec. 31, 1920	465.59	
Uncollected Dec. 31, 1920 (per Auditor's Ledger)	15,457.54	
(per imator b Bedger)		
	\$194,229.05	\$194,229.05
Droof	\$194,229.03	\$194,229.03
Proof.		
Uncollected, Jan. 21, 1921 (as per detailed list)	\$ 15,508.64	
Collections, Jan. 1 to 31, 1921	2.00	
	\$ 15,510.64	
Less overpayments, as per list \$14.51	, ,	
Undetected error		
Ondetected error	52.10	
	53.10	
Uncollected Dec. 31, 1920 (per Auditor's Ledger)	\$ 15,457.54	
STREET SPRINKLING 19	18.	
Uncollected Jan. 1, 1920 (per Auditor's Ledger)		\$ 3,204.73
	ф. 2.002.22	\$ 3,204.73
Collections, Jan. 1 to Dec. 31, 1920	\$ 3,202.33	
Abatements Jan. 1 to Dec. 31, 1920	3.59	
Overpayment, Dec. 31, 1920 (per Auditor's Ledger)		1.19
	\$ 3,205.92	\$ 3,205.92
Proof.	, -,	,
Uncollected Jan. 1, 1921 (per detailed list)	\$.81	
Overpayment (per Auditor's Ledger)	1.19	4 200
Undetected error		\$ 2.00
	\$ 2.00	\$ 2.00
MOTH 1918.		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$ 392.10
Collections, Jan. 1, to Dec. 31, 1920	\$ 390.10	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Abatements Jan. 1 to Dec. 31, 1920	.40	
- /		
Uncollected, Dec. 31, 1920 (per detailed list)	1.60	
	\$ 392.10	\$ 392.10
TAXES 1919.		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)	\$580,469.57
Collections, Jan. 1 to Dec. 31, 1920	\$354,056.31	
Abatements, Jan. 1 to Dec. 31, 1920	6,527.50	
Uncollected, Dec. 31, 1920 (per Auditor's Ledger)	\$219,885.76	
Onconected, 19ec. 31, 1920 (per Auditor's Ledger)	φ219,000.70	
	ΦE00 460 F7	0500 100 57
	\$580,469.57	\$580,469.57

Proof

Proof.				
Uncollected, Jan. 25, 1921 (per detailed list) Collections, Jan. 1 to 25, 1921 Undetected error	\$1	195,931.96 23,967.75 12.05		
Less overpayments, as per list	\$2	219,911.76 26.00		
Uncollected, Dec. 31, 1920 (per Auditor's Ledger)	\$2	219,885.76		
STREET SPRINKLING 19	919			
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Error in addition of tax receipt book, Oct. 16, 1919,			4.5	7,192.07
corrected in year 1920	\$	4,129.77 3,071.30		9.00
	\$.	7,201.07	\$	7,201.07
Proof. Uncollected, Jan. 24, 1921 (per detailed list) Collections, Jan. 1 to 24, 1921 Error in addition of tax receipt book Oct. 11, 1919, corrected in 1921 Uncollected, Jan. 1, 1921 (per Auditor's Ledger)	\$	2,745.09 326.11 .10 3,071.30		
MOTH 1919.				
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Collections, Jan. 1 to Dec. 31, 1920	\$	376.65 1.20 285.30	\$	663.15
	\$	663.15	\$	663.15
Proof.				
Uncollected, Jan. 24, 1921 (per detailed list) Collections, Jan. 1 to 24, 1921	\$	239.50 45.80		
	\$	285.30		

TAXES 1920

Assessors' Warrant Commitment (per Auditor's		
Ledger)		\$3,516,281.55
Supplementary Commitment		8,080.48
Re-assessments after payment	#22 000 00	265.20
· ·	,722,888.89 19,023.76	
Abatements to December 31, 1920	19,023.70	
Ledger)	782,714.58	
\$3	,524,627.23	\$3,524,627.23
Proof.		
Uncollected, Feb. 7, 1921 (per detailed list)	\$581,341.04	
Collections, Jan. 1 to Feb. 7, 1921	199,490.82	
Abatements, Jan. 1 to Feb. 7, 1921	1,872.63	
Undetected error	70.81	
	\$782,775.30	
Less Overpayments (per list)	\$ 60.72	
See O (espa) mente (per siet) minimum		
Uncollected, Dec. 31, 1920 (per Auditor's Ledger	\$782,714.58	
STREET SPRINKLING 19	20.	
Commitment (per Auditor's Ledger)		\$ 25,405.45
Reassessement after payment		1.69
Collections, Oct. 2 to Dec 31, 1920	\$ 18,176.39	
Abatements, Oct. 2 to Dec. 31, 1920	115.20	
Uncollected, Dec. 31, 1920 (per Auditor's Ledger)	7,115.55	•
	\$ 25,407.14	\$ 25,407.14
Proof.	Ψ =0,.0772.	Ŷ 2 0,107.11
Uncollected, Feb. 7, 1921 (per detailed list)	\$ 5,710.25	
Collections, Jan. 1 to Feb. 7, 1921	1,401.17	
Abatements, Jan. 1 to Feb. 7, 1921	4.13	
Uncollected, Dec. 31, 1920 (per Auditor's Ledger)	\$ 7,115.55	

MOTH 1920.		A 2 212 22
Commitment (per Auditor's Ledger)	A 2271 TO	\$ 3,213.20
Collections, Oct. 2 to Dec. 31, 1920	\$ 2,374.50	
Uncollected, Dec. 31, 1920 (per Auditor's Ledger)	020 50	
	838.70	
	\$ 3,213.20	

\$ 1.647.46 \$ 4.633.45

Proof. Uncollected, Feb. 7, 1921 (per detailed list) Collections, Jan. 1 to Feb. 7, 1921	\$	687.95 150.55 .20 838.70	
SEWER ASSESSMENTS			
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Commitments, Jan. 1 to Dec. 31, 1920		4,775.62 237.28 4,148.60	\$ 1,498.11 7,663.39
	\$	9,161,50	\$ 9,161.50
Uncollected, Jan. 1, 1920 (per Auditor's Ledger) Commitments, Jan. 1 to Dec. 31, 1920	гs	1,647.46	\$ 428.13 4,205.32 2,985.99
Onconected, Dec. 51, 1920 (see detailed list)		1,047.40	

Assessor's Department:—The records of the Assessor's office, relating to the commitment and abatement of taxes, were examined, and as usual, found to be in excellent condition.

Abatements, were compared with the Collector's tax books, and Auditor's ledger, and found to have been correctly entered.

The following table shows a summary of the total abatements made by the Assessor's during the year 1920:

	Levy	Polls	Personal	Real Estate	Totals
1917		\$10,940.00	\$2,963.40	\$ 433.00	\$14,336.40
1918	***************************************	36.00	101.15	328.44	465.59
1919		2,712.00	1,492.40	2,323.10	6,527.50
1920		5,277.00	4,919.08	8,562.48	18,758.56
		\$18,965.00	\$9,476.03	\$11,647.02	\$40,088.05

Licenses Commissioner's Department:—The financial records of this office were examined and verified. A large percentage of all licenses issued by the City are issued from this office: Fees for all licenses issued here are collected by the Clerk at this office, and later deposited with the City Treasurer, with the exception of fees for liquor licenses, which are paid directly to the Treaurer's office.

The fees for the issuance of liquor licenses during the year 1920 amounted to only \$16.00. From the same source the City collected during the year 1919, \$85,777.00, and during the year 1918, \$144,836.00.

The receipts for all other licenses issued from this office during the year 1920 amounted to \$8,634.50. There was a balance due the Treasurer at the end of the year 1919, for licenses issued during the year 1919, amounting to \$47.50, making the total amount paid the Treasurer by this office during the year 1920, \$8,682.00.

The following table shows a summary of the licenses issued during the year and the amount of fees collected therefor:

Amusements and Shows	d \$1,397.50
	. ,
Auctioneers29	58.00
Dicycle and Motorcycle	4.00
Coffee Houses40 "	200.00
Express and Job Wagons	188.00
Hawkers and Peddlers No. 1	1,275.00
Hawkers and Peddlers No. 2	10.00
Innholders and Victuallers	613.00
Intelligence Offices	16.00
Junk Dealers and Collectors	394.00
Junk Dealers Badges10 "	5.00
Musician	21.00
Pawn Brokers	208.00
Pool and Bowling80 "	719.00
Photographs	7.00
Old Clothing16 "	32.00
Sunday Ice Cream	2,578.00
Holiday Special89 "	204.00
Agents Licenses	465.00
Junk Licenses	15.00
Used Car Dealers	195.00
Second Hand Auto Agent	30.00
_	
	\$8,634.50
Due from 1919	47.50
Total payments to Treasurer	. \$8,682.00

City Clerk's Department:—The financial records kept by the City Clerk's Office were examined, and the receipts checked, listed and verified.

The following table shows a summary of the total receipts for the year and the source of same:—

Permits: Marriage		\$1,381.00
Licenses: Gasoline Firearms	\$228.55 30.00	\$ 258.55
Services Rendered: Recording Mortgages Assignment of Wages Married Women's Certificate Miscellaneous	\$872.50 11.95 6.10 893.93	\$1,784.48
Total Receipts and Payments to Treasurer	*	\$3,424.03

Building Department:—The financial records of the Building Department were examined, checked and verified, by comparison with the books of the City Auditor and City Treasurer.

All bills sent out for collection were checked to the Auditor's accounts, and the uncollected bills at the end of the year 1920 were listed and proved.

The following tables show a record of the accounts receivable, and also the amount of cash collected and subsequently deposited with the Treasurer:

Uncollected, Jan. 1, 1920 (per Auditor's Ledger)	68.25	\$ 103.97 7,034.99
	\$7,138.96	\$7,138.96
Cash Receipts		
Elevator Operator's Licenses	\$ 40	0.00
Deblic Comfort Station	E60	150

 Public Comfort Station
 560.50

 Weighing Machine
 344.25

 City Hall Telephone
 1.42

 Sale of Drum
 4.20

\$950.37

The collections from Accounts Receivable were classif	ied as follows:-
School House Rents	\$ 495.00
Court House Rents	2,950.00
Sale of Bartlett School Site	3,500.00
Miscellaneous Sales	125.71
	\$7 070 71

Police Department:—The receipts of the Police Department were checked and proved. The following table shows the result of the examination:—

tion.		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$ 3.75
Commitments, Jan. 1 to Dec. 31, 1920		34.25
Collections, Jan. 1. to Dec. 31, 1920	\$ 34.25	
Abatements Jan. 1 to Dec. 31, 1920	2.25	
Uncollected, Dec. 31, 1920 (per detailed list)	1.50	

\$ 38.00 \$ 38.00

Cash receipts of the department during the year amounted to \$73.21. This amount was duly deposited with the City Treasurer.

Fire Department:—The financial records of the Fire Department were examined, checked, added and verified.

The cash receipts of the department during the year amounted to \$621.37, classified as follows:—

Garage Permits	\$221.43
Re-imbursement by Chief for money loaned to Com-	
missioner Brown in 1918	200.00
Fireworks Permits	102.99
Sale of Junk	40.00
	<u> </u>
Total cash receipts made by the office	\$564.42
Collected by Treasurer on account of this department,	
for bills sent out	56.95

I would suggest that the department obtain a different style of book in which to record the receipts of money collected for Garage Permits.

Wire Department:—The financial records of the Wire Department were checked, and the total receipts found to be \$447.24, all of which were collected by the City Treasurer. There were no uncollected bills at the end of the year.

Sealer of Weights and Measures:—The ledger and cash book kept by the Sealer were examined and verified, by comparison with the books of the Auditor and Treasurer.

The following table shows a proof of the accounts receivable and the amount of cash collected by the Sealer, and subsequently deposited with the Treasurer

Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$ 11.88
Commitments, Jan. 1 to Dec. 31, 1920		243.01
Collections, Jan. 1 to Dec. 31, 1920	\$239.43	
Abatements, Jan. 1 to Dec. 31, 1920	.50	
Uncollected, Dec. 31, 1920 (per detailed list)	14.96	

\$254.89 \$254.89

Health Department:—The financial records of this department were examined, added and verified by comparison with the books of the Auditor and Treasurer.

Collections of cash are made by this office for the sale of Garbage and for the issuing of licenses for the collection of Garbage and other miscellaneous purposes.

All collections made by the department are deposited with the Treasurer daily, and signed acknowledgment of same are on file at the departmental office. The total amount of these receipts for the year were as follows:—

Sale of Garbage	\$3 997 71
Garbage Licenses	
Denatured Alcohol Licenses	
Massage License	2.00
Genito-Urinary Clinic Fees	704.20
Board at Tuberculosis Hospital	60.00
Insurance for damage to Automobile	12 00
-	
Total cash receipts collected by Dept	\$5,281.91

Uncollected accounts receivable on December 31, 1920, were listed and the collections of the department through the Treasurer's office were proved as follows:—

as tonows.		
Uncollected Jan. 1, 1920 (per Auditor's Ledger)		\$1,254.82
Commitments, Jan. 1 to Dec. 31, 1920		3,813.07
Collections, Jan. 1 to Dec. 31, 1920	\$2,095.64	
Abatements, Jan. 1 to Dec. 31, 1920	734.32	
Uncollected, Dec. 31, 1920 (per detailed list)	2,237.93	

\$5,067.89 \$5,067.89

Milk Inspector:—The cash book kept by the Inspector was examined and checked as follows:—

Milk Licenses Issued669	\$330.50
Oleo Licenses Issued	34.00
Other Licenses Issued 10	5.00
Total Receipts of Department	\$373.50

Street Department:—The financial records of the Street Department were examined and verified by comparison with the books of the Auditor and Treasurer.

The outstanding accounts receivable on December 31, 1920, were listed and the total receipts of the department for the year were proved thereby.

The following table shows a summary of the bills sent out and the collections on account of same as proved:

concettons on account or same, as proved .—		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$ 702.82
Uncollected Granolithic Sidewalk Bills, Jan. 1, 1920		277.52
Commitments, Jan. 1 to Dec. 31, 1920		2,506.83
Collections, Jan. 1 to Dec. 31, 1920	\$2,599.26	
Abatements, Jan. 1 to Dec. 31, 1920	13.52	
Uncollected, Dec. 31, 1920 (per detailed list)	874.39	

\$3,487.17 \$3,487.17

The department makes no collections directly, but sends out bills for all amounts due, and these are collected by the Treasurer's office. The total collections of the year, as proved, are classified as follows:—

Sewer Connections	\$ 241.18
Street Maintenance	1,504.24
Sidewalk Maintenance	520.21
Street Sprinkling	333.63
_	

Charity Department, Outdoor Relief:—The financial records of this department were examined, checked, added and verified by comparison with the books of the Auditor and Treasurer.

The outstanding accounts receivable at the end of the year were listed, and a proof obtained of the total receipts of the department, collected by the Treasurer, during the year 1920, as follows:—

Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$2,959.75
Commitments, Jan. 1 to Dec. 31, 1920		9,083.47
Collections, Jan. 1 to Dec. 31, 1920	\$8,702.34	
Abatements, Jan. 1 to Dec. 31, 1920	186.66	
Uncollected, Dec. 31, 1920 (per detailed list)	3,154.22	

Charity Department, Hospital:—The Accounts	Receivabl	e of this
department were proved, as follows:-		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$1,115.75
Commitments, Jan. 1 to Dec. 31, 1920		4,076.83
Collections, Jan. 1 to Dec. 31, 1920	\$4,479.44	
Abatements, Jan. 1 to Dec. 31, 1920	353.75	

Uncollected, Dec. 31, 1920 (per detailed list) 359.39

\$5,192.58 \$5,192.58

School Department:-The financial records of the School Department were examined, checked, added and verified by comparison with the books of the Auditor and Treasurer.

The uncollected accounts receivable at the end of the year were listed, and the total collections of the Treasurer during the year, on account of the School Department, proved thereby.

This department has quite a number of old bills outstanding which should either be collected or abated, if uncollectable, at once. There is no necessity of carrying uncollectable accounts as assets on the books of the City.

The following table shows a summary of the Accounts Receivable, and a proof of the Treasurer's collections during the year, on account of the School Department:-

Benoor Bepartment.		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$ 2,590.98
Commitments, Jan. 1 to Dec. 31, 1920		15,771.14
Collections, Jan. 1 to Dec. 31, 1920	\$11,341.71	
Abatements, Jan. 1 to Dec. 31, 1920	686.75	
Uncollected, Dec. 31, 1920 (per detailed list)	6,333.66	

\$18,362.12 \$18,362.12

Vocational School:—The financial records of this department were examined, checked, added and verified by comparison with the books of the Auditor and Treasurer.

The following table shows a proof of the Accounts Receivable and the collections on account of same, together with the outstanding accounts at the end of the year:-

the old of the Jean		
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)		\$15,462.21
Commitments, Jan. 1 to Dec. 31, 1920		28,617.69
Collections, Jan. 1 to Dec. 31, 1920	\$18,417.01	
Abatements, Jan. 1 to Dec. 31, 1920	116.76	
Uncollected, Dec. 31 1920 (per detailed list)	25,546.13	

\$44,079.90 \$44,079.90

Library Department:—The financial records of this department were examined, checked, added and verified by comparison with the books of the Auditor and Treasurer.

\$1,438.52 \$1,438.52

Park Department:—The financial records of this department were examined and the receipts proved.

The recepits were all collected by the department, and subsequently deposited with the Treasurer.

The following table shows a summary of the receipts during the year, and the source of same:—

Vendors' Permits, South Common	\$ 50.00
Rental of Fair Grounds	700.00
Rental of Lots at South Common, July 4	2,307.00
Weighing Machine	9.31
Damage to Tree	
Bath House Receipts	
Total Receipts	\$4,729.46

Water Department:—The financial records of the Water Department were examined, checked, added and verified by comparison with the books of the Auditor and Treasurer.

The income of the department, for current expenses, including the maturing water debt, and the interest on the total water debt, is derived entirely from the collections made for Water Accounts Receivable.

These Accounts Receivable were verified by listing the accounts due at the end of the year 1920, and effecting a reconciliation between the bills sent out during the year and the collections as reported by the Treasurer's office during the same period.

The financial records of the Water Department are, as usual, in good condition, and the accounts receivable were readily proved, as follows:—

condition, and the accounts receivable were readily p	roved, as follov	vs :—
Uncollected, Jan. 1, 1920 (per Auditor's Ledger)	\$	3,730.21
Commitments, Jan. 1 to Dec. 31, 1920	3	394,451.29
Collections, Jan. 1 to Dec. 31, 1920	371,918.38	
Discounts, Jan. 1 to Dec. 31, 1920	17,121.57	
Abatements, Jan. 1 to Dec. 31, 1920	2,612.34	
Uncollected, Dec. 31, 1920 (per detailed list)	6,529.21	

\$398,181.50 \$398,181.50

The total collections for the year, amounting to \$371,918.38, as proved above, were classified from the following sources:—

Water Rates, Annual	\$ 24,661.24
Water Rates, Metered	324,810.19
Maintenance	15,457.35
Construction	6,989.60
Total Receipts	\$371 918 38

At the beginning of the fiscal year of 1920 the Water Department had a deficit, or in other words, owed the City of Lowell, \$56,942.51.

At the end of the year 1920, this dencit had increased to \$100,952.32, showing that the expenses of the department during the year were in excess of its income by \$44,009.81.

The following table summarizes the total income and expenses of the department during the fiscal year of 1920:—

Income

Total Collections from Water Rates	\$371,918.38
Accrued Interest on Loan	23.70
Transfers from School Construction	250.01

Expenses

Expenses	
Labor Pay Rolls	\$176,900.52
Maturing Debt	63,000.00
Interest on Debt	57,173.75
Bills approved and paid, as follows:-	
Fuel	69,540.11
Pipe and Fittings	16,112.25
Meters	5,770.08
Stable Expense	7,577.13
Repairs and Equipment	10,285.42
Pumping Station Supplies	9,593.01
Refunds	249.63
Total Income	
Total Expense	\$416,201.90
1920 Deficit	
\$416,201.90	\$416,201.90

Public Scales:—The receipts of the City Scales were proved by examining the books of the department, in comparison with the books of the Auditor and Treasurer. The total receipts were as follows:—\$93.25.

Cemetery Department:—The financial records of the Cemetery Department were examined, checked, added and verified by comparison with the books of the Auditor and Treasurer.

This department is self-supporting. Its income is derived from the Sale of Lots and Graves, Care of Lots, Opening Graves, and other miscellaneous services, together with the income earned by the Cemetery Perpetual Care Trust Funds, of which the City Treasurer is Custodian.

In addition to the collections made by the Treasurer's office on account of Accounts Receivable, the department makes cash collections, and deposits the money with the Treasurer, at regular intervals.

During the year 1920, the total amount collected at the Cemetery office was \$5,896.55, making the total receipts of the department for sales and services, \$18,659.02, classified as follows:—

Sale of Lots and Graves	\$ 4,771.50
Care of Lots and Graves	7,692.37
Opening Graves	5,655.50
Recording and Miscellaneous	539.65
Total Receipts	\$18,659.02

Interest and Indebtedness:—Receipts on account of Interest were verified and summarized as follows:—

On Deferred Taxes	\$30,054.23
On Bank Deposits	12,585.68
On John Davis, Library Trust Fund	3,967.01
On Cemetery Perpetual Care Funds	17,850.00
On Stackpole, Cemetery Fund	45.50
On Jno. Tyler, Worthy Poor Fund	488.81
On Auditorium Fund	71.63

The following table summarizes the interest receipts from Interest on deposits:—

Lowell Trust Co.	\$	1,207.89
Union National Bank		1,595.41
Old Lowell National Bank		1,051.68
Middlesex Trust Co.		1,960.54
Appleton National Bank		1,557.10
Wamesit National Bank		1,175.24
First National Bank of Boston		1,531.92
High School Fund		2,505.90
	,	
Total Interest on Deposits	\$1	2,585.68

The records of Loans Authorized and the receipts on account of loans issued during the year were examined and proved.

The receipts agreed with the authorizations of the Municipal Council, and were summarized as follows:—

Bonds issued	\$1,487,000.00
Temporary Loans issued	3,000,000.00
Premium on above Loans	11,558.80
Accrued interest on above loans	4,462.91
Total receipts from Intebtedness	\$4,503,021.71

Payments on account of Interest and Debt were proved by the Auditor's debt record of amounts falling due during the year, and by an examination of the Treasurer's subsidiary cash book, which is kept especially for this purpose.

This proved to agree with the Auditor's ledger account of same, and also with the actual amount owed by the City.

The interest requirements and debt maturing during the fiscal year of 1920 were as follows:—

Interest:		
On Temporary Revenue Loans	\$ 9,200.00	
On General City Debt issued previous to		
1920	142,229.00	
On General City Debt issued previous to		
1920	17,412.50	
On Water Debt issued previous to 1920	56,817.50	
On Water Debt issued in 1920	356.25	
		\$226,015.25
Indebtedness:		
Temporary Loans issued in 1919	\$ 800,000.00	
Temporary Loans issued in 1920	1,800,000.00	
General City Debt	794,150.00	
Water Loans	1,063,000.00	
-		\$4,457,150.00
Total Interest and Debt requirements		\$4,683,165.25

The following table shows the Treasurer's account of unpaid debt and interest on January 1st, 1920, together with the interest and debt requirements for the year; also the total payments made by the Treasurer, during the year, and the balance in the bank to the credit of this account on December 31st, 1920.

This balance was proved to be correct by an examination of the bank statement of even date.

Unpaid debt and interest, Jan. 1, 1920 (per

Auditor's Ledger)		\$ 14,707.50
Interest and Debt requirements (as above)		4,683,165.25
Total payments during year, as verified	\$4,671,515.25	
Unpaid Debt and Interest, Dec. 31, 1920	26,357.50	

\$4,697,872.75 \$4,697,872.75

In addition to the Interest payments recorded above, there were discounts on temporary loans issued in 1920, amounting to \$84,412.33, which were not accounted for on the Debt and Interest Cash Book.

Sinking Funds:—At the beginning of the year 1920 the City of Lowell had loans outstanding amounting to \$1,800,000.00, for the payment of which Sinking Funds had been provided.

Of these loans, two became due, and were paid during the year. The City Hall Building Loan, amounting to \$450,000.00 became due and was paid on October 1st. The Water Construction Loan, amounting to \$1,000,000.00 became due and was paid on November 1st.

The City has, therefore, only two loans payable by this method, at the present time.

These are the High School Loan, amounting to \$150,000.00, which becomes due and payable on April 1st, 1921, and the new School House Loan which becomes due and payable on July 1st, 1926.

The total amount of cash, together with the par value of the securities in these funds on January 1st, 1921, was \$351,411.58.

The securities of the two funds, comprising the total amount owned by the City, was personally examined and checked to a prepared list, and reconciled back to January 1st, 1921.

The securities were found to be in excellent condition, and readily verified. All coupons not matured were found to be intact, and the securities checked agreed with the list furnished, and also with the books of the City Treasurer, who is also Treasurer of all Sinking Funds.

The income earned by each fund was figured, and the cash transactions during the year were examined and proved.

The following tables show the receipts and payments during the year, together with the cash balances at the beginning and end of the year, as verified by statements received from the various banks of deposit:

NEW SCHOO	L HOUSES	LOAN SIN	KING FUNI	D
		Cash	Securities	Total
On hand at beginning of On hand at end of year			, ,	\$150,678.10 173,077.46
Receipts Annual Appropriation Income on Securities Interest on Deposits Securities sold or matured Discount on Securities purchased	\$ 3,000.00 9,325.81 114.00 216,500.00 15,300.00	Securities pu Discount or sold Accrued I	n securities	\$237,000.00 4,463.35 877.10
Total Receipts	\$244,239.81 178.10 \$244,417.91	Total Payme Cash, Dec. 3		\$242,340.45 2,077.46 \$244,417.91

NEW SCHOOL HOUSES LOAN SINKING FUND

	Cash	Securities	Total
On hand at beginning of year On hand at end of year		' '	\$139,956.54 178,334.12
Receipts	.36 (par)70 Accrued i above00 Discount or sold		\$278,000.00 1,069.67 13,336.10 \$292,405.77 9,334.12 \$301,739.89

CITY HALL LOAN SINKING FUND

		Cash	Securities	Total
On hand at beginning of On hand at end of year	-	•	\$442,500.00 none	\$442,807.65 none
Receipts Annual Appropriation Special Appropriation Income on Securities	4,241.73 20,642.60	Securities (par) Accrued in	nterest on	\$152,500.00
Interest on Deposits Discount on Securities purchased Securities sold	211.95 491.75 595,000.00	Discount or		1,305.58 24,590.10 450,000.00
Total Receipts	\$628,088.03 307.65 \$628,395.68	Total Paymo	ents	\$628,395.68 \$628,395.68

WATER WORKS SINKING FUND

	Cash	Securities	Total
On hand at beginning of year		\$967,950.00 none	\$968,360.54 none
Special Appropriation 40,258.27 Income on Securities 48,357.64 Securities sold (par value)	Accrued in above Discount or sold	nterest on Securities d and paid	5,592.79
Total Receipts			¢1 724 046 20
\$1,754,040.50			\$1,734,046.30

Trust Funds:—The securities belonging to the several trust funds owned by the City of Lowell were personally examined and listed, and the cash transactions during the year were checked and proved.

The City Treasurer is Custodian of all Trust Funds, both cash and securities, and the records are in excellent condition and easily checked and proved.

The following tables show the standing and value of funds, for which the City has cash and securities, as examined and verified.

JOHN DAVIS LIBRARY TRUST FUND

		Cash	Securities	Total
On hand at beginning of On hand at end of year .			\$100,712.19 106,221.82	\$103,968.36 106,222.79
Receipts			Payments	
Income on Securities Interest on deposits National Bank Tax Interest on Mortgage Mortgage paid Discount on Securities Purchased	52.10 92.96 682.00 500.00	Accrued I above Commission Paid to Ci for Librar	nterest on on above ty of Lowe y Expenses	3,967.01
Total Receipts Cash, Jan. 1, 1920	\$ 6,834.06 3,256.17	Total Payme Cash, Dec. 3		\$ 10,089.26 .97
	\$ 10,090.23			\$ 10,090.23

HAPGOOD WRIGHT CENTENNIAL FUND

On hand January 1, 1920	\$12,655.03
Income earned during year	600.64
_	
On hand December 31, 1920	\$13,255.67

JONATHAN TYLER WORTHY POOR FUND

On hand at beginning of year			
On hand at end of year	00.00		
Income earned during year	\$488.81		
Income withdrawn during year		488.81	
Securities examined as follows:-	•		
Central Five Cent Savings Bank, Boo	k 67231		\$2,000.00
Merrimack River Savings Bank, Book	18705		2,000.00
Lowell Five Cent Savings Bank, Book	c 139598		2,000.00
City Institution for Savings, Book 124	1026		2,000.00
Mechanics Savings Bank, Book 40383	3		2,000.00
		_	
Total amount of fund			\$10,000.00
CENTEDED TO DESCRIPTION OF THE PERMITTER	TIAT CADE	THEFT	
CEMETERY PERPET			m
On hand at beginning of year	Principal \$126,740.00	Income \$21,634.98	Total \$148,374.98
	14,325.00	6,869.50	' '
Receipts during year	14,325.00	0,809.50	21,194.50
	\$141,065.00	\$28,504.48	\$169,569.48
Withdrawn for Cemetery Expenses		17,850.00	17,850.00
On hand at end of year	\$141,065.00	\$10,654,48	\$151,719,48
· ·	φ1+1,000.00	φ10,054.40	φ151,712.40
Securities examined, as follows:—			
Old Lowell National Bank, Book 29			\$ 3,773.24
Merrimack River Savings Bank, Bo	ook 8765		18,505.34
City Inst. for Savings, Book 74283			20,964.12
Central Savings Bank, Book 26100			18,035.19
Lowell Five Cent Savings Bank, Bo	ook 47514		18,476.71
Mechanics Savings Bank, Book 248	17,423.80		
Lowell Inst. for Savings, Book 7926		17,978.13	
Middlesex Trust Co., Book 1755		18,679.40	
Washington Savings Bank, Book 12	216		17,883.55
Total amount of Securities, Dec. 31	, 1920	-	\$151,719.48

JOSEPH H. STACKPOLE CEMETERY FUND

This fund is invested in the Lowell Five Cent Savings Bank, Book 131530, and the total amount on hand at the beginning and end of the year was \$1,000.00. The income earned was \$45.50, which was all withdrawn from the bank and expended as provided for in the terms for the deed of gift.

Conclusion:—The audit of the 1920 accounts has been satisfactory from a clerical point of view in most departments.

The City has a modern system of accounting, and the valuable information obtained therefrom is of great service to the City in promoting efficiency and economy.

However, in order to obtain the full advantage of the system, great care must be taken by all departments to keep the financial records correct and up to date.

All departments should make sure that all departmental bills sent out by them are collected promptly.

The revenue deficit of the Water Department should be reduced or entirely closed out without delay, either by a reduction of expenses, or if this is impossible, by an increase of income.

The appended balance sheet, under date of December 31st, 1920, consists of a statement of the Assets and Liabilities of the City on that day, as disclosed by the audit.

I wish to express my appreciation for the courtesies received during the progress of the audit.

Respectfully submitted,

EVERETT E. TARBOX.

CITY OF LOWELL Balance Sheet January 1, 1921

		\$1,200,000.00	17,386.09							
	unts		\$ 9,545.00 13,376.81 21,450.50	823.61	\$ 45,195.92			\$ 22,473.72 8,016.22	1,815.37 7,187.03	90.00
REVENUE	Liability Accounts	\$ 303,518.52 Temporary Loans: Anticipation of Revenue Premiums (Reserved for payment	of debt)	\$1,027,821.16 Charter Commission		\$ 10,201.40	Less Appropriation Overdrafts:	Polige	4,148 60 Health Office	2,822.29 Inspector of Animals
	ıts		8,687.64 6.00 15,457.54 219,885.76 782,714.58		\$ 14.55 3,071.30 7,115.55	100	\$ 1.60 285,30	838.70		
	Asset Accounts	Cash, in Banks and Office	Taxes 1916 Taxes 1917 Taxes 1918 Taxes 1919 Taxes 1920		Street Sprinkling 1915	Moth Assessment 1010	Moth Assessments 1919	Moth Assessments 1920	Sewer Assessments	Tax Titles

							\$ 3,888.89							\$ 193,849.36					\$ 11,400.42	85,914.39	\$1,512,439.15
	nts	\$ 106.44	338.06	1,280.19		\$ 41,307.03			\$ 1,732.31	295.39	23,678.92	73,163.35	94,979.39				\$ 6,529.21	4,871.21			
REVENUEContinued	Liability Accounts	Inspector of Milk	Comfort Station	Charity O. D. R			Overlays:	(Reserved for Abatement of Taxes)	1916 \$ 1,732.31	1917	1918	1919	1920		Revenue Accounts:	\$ 48,801.38 Reserved when collected for,	6,529.21 Water Department	4,871.21 Cemetery Department	100,952.32	Surplus, 1920 and prior	\$1,512,439.15
	Ø		\$ 68.25	1.50	.45	14.96	2,237.93	874.39	3,154.22	359.39	8,258.50	1,720.00	232.00	6,333.66	25,546.13						
	Asset Accounts	Departmental Bills:	Buildings	Police	Fire	Sealer	Health	Highways	Charity, Out Door Relief	Charity, Hospital	State Aid	Military Aid	Soldiers Burials	Schools, General	Schools, Vocational		Water Rates	Cemetery Bills	Due from Water Department		

CITY OF LOWELL

Balance Sheet January 1, 1921

			\$ 1,024.58	4	\$ 36,060.63	\$1,345,665.09	\$ 20,245.82
	unts	: \$ 361.19 537.79	125.60	\$ 2,105.82 32.91 7.42 15,725.18	12,004.05	\$1,322,039.86 22,319.40 1,305.83	\$ 16,782.31
NON-REVENUE	Liability Accounts	\$ 505,740.80 Appropriation Balances, from Loans: 1,510,000.00 Health and Sanitation: Sewer Construction sloading Isolation Hospital Equipment	Station and Control Highways and Bridges	Paving	First Street Extension	Education: High School Construction School Construction	Water: Extension of Water Mains Acquiring Land and Protecting Water Supply
NON-RI		\$ 505,740.80 1,510,000.00		-			
	Asset Accounts	Cash, in Banks and Office					

		\$ 612,744.68	\$2,015,740.80		\$ 350,000.00 5.00 0.00	\$4,197,685.00	\$4,547,685.00
	ounts	\$ 1,625.02 611,119.66		\$ 150,000.00 200,000.00	\$1,285,135.00 79,800.00	26,200.00 244,000.00 28,000.00 28,000.00 26,200.00	-
NON-REVENUE—Continued	Liability Accounts	Unclassified: Municipal Purposes	40.80 Indebtedness	Funded Debt (With Sinkink Funds): High School Loan, due April 1, 1921 ** School House Loan, due July 1, 1926 ** 1, 1926 *	Serial Loans: 4% Loans 41/4% Loans	442% Loans 444% Loans 5% Loans 5% Loans 6% Loans 6% Loans 17.15% Loans	
VON-REVEN			\$2,015,740.80	\$ 173,077.46 178,445.12 \$ 351,411.58	\$4,196,273.42 Serial Loans: 4% Loans 41,4% Loans		\$4,547,685.00
	Asset Accounts			Sinking Funds (Cash and Securities): High School Loan Fund	Net Bonded Debt		

													\$ 282,197.94							\$ 26,200.00	\$ 308,397.94	
	ounts				\$ 10,000.00	106,222.79		13,255,67		151,719.48		1,000.00				200:00	25,000.00		1,000.00			
NON-REVENUE—Continued	Liability Accounts	Trust	Trust Funds:			John Davis, Library Fund 106,222.79	Hapgood Wright, Centennial	Fund	Edson Cemetery Perpetual	Care Fund	J. H. Stackpole, Cemetery	Fund		Used by City:	Carney High School Medal	Fund	Nesmith Worthy Poor Fund	Nesmith High Street Church	Fund	4	4	
NON-REVE				\$	26,200.00										ø						\$ 308,397.94	
	Asset Accounts		Trust Funds:	Cash and Securities	Used by City															٠		



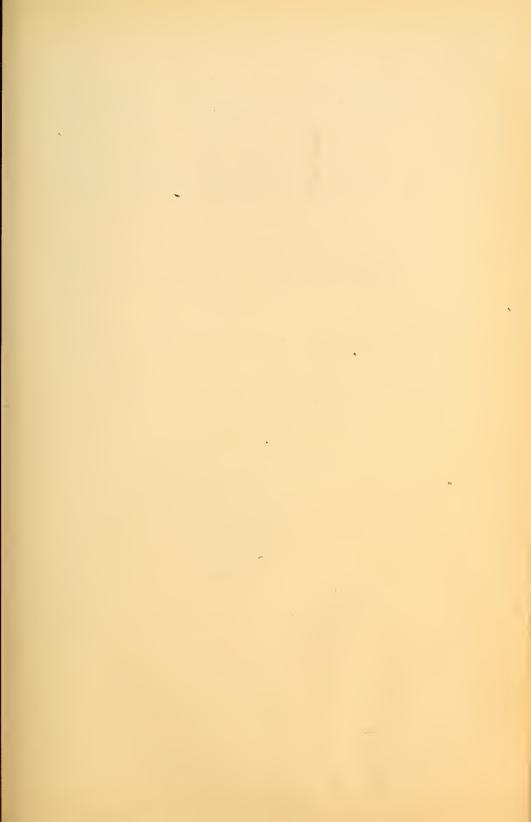
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Ninth Annual Report

OF THE

COMMISSIONER

OF

WATER WORKS

OF THE

CITY OF LOWELL, MASS.

To the Municipal Council, for the year ending Dec. 31, 1920, and being the Forty-Eighth Annual Report of the Water Works Department.



Including Reports of the Superintendent, City Engineer and Registrar

1920

F. A. M. TOBIN'S PRINTERY

The annual report of the operation of the Water Works
Department of the City of Lowell for 1920 by the

Superintendent, ROBERT GARDNER,
Engineer, STEPHEN KEARNEY,
Registrar, J. W. CRAWFORD,

to John F. Salmon, Commissioner Water Works and Fire Protection, Lowell, Mass.

The following tables will show the financial operation of the Water Works Department for the year 1920:

J. W. CRAWFORD,

Registrar.

Jan. 1, 1921.

LOWELL WATER WORKS

CONSOLIDATED STATEMENT, 1920

Balance, Jan. 1, 1920 W. Wks.	Operation and repairs\$	\$269,143.91
App. Dept. equipment, loans	\$52,201.46 Interest	57,173.75
Dept. equipment, loan	15,000.00 Payments on loans	63,000.00
Bal. for land loan: 3,783.	3,783.76 Payments for W. W. Construction Acet	26,634.61
Received from Water Meter rates327,664.	.327,664.25 Payments for Dept. Equipment Acct	50,419.15
Received from Water fixture rates	11,460.63 Payments for Land Acet.	320.25
Received from transfers9,791.	9,791.64 Payments for Refunds	249.63
Received from labor and material	7 Bal. Dec. 31, 1919 W. Wk. Acct.:	
O D Dee. 31st, W. Wks. Acct	Dept. Equipment Appro	\$16,782.31
	- Purchase land	3,463.51

\$487,187.12

\$487,187.12

PRINCIPAL AND INTEREST, LOWELL WATER WORKS, 1920

	Amount Jan. 1, 1920	Annual Payment	Interest 1920	Amount Jan. 1, 1921	Amount Original loan	Rate Per Cent	Payable
Bonds1890	\$1,000,000.00		\$40,000.00	. :		:	
A. C. Pump1920	6,000.00	\$6,000.00	240.00		\$60,000.00	4	Dec.
P. S. Reservoir and Mains1921	20,000.00	10,000.00	800.00	\$10,000.00	100,000.00	4	Aug.
P. S. Reservoir and Mains1932	48,750.00	3,750.00	1,950.00	45,000.00	75,000.00	4	Sept.
P. S. Reservoir and Mains1933	52,500.00	3,750.00	2,362.50	48,750.00	75,000.00	41/2	Aug.
Land194	12,500.00	500.00	200.00	12,000.00	15,000 00	4	Aug.
Purification Plant1935	177,000.00	12,000.00	6,840.00	165,000.00	225,000.00	. 4	Apr.
Ext. Mains Dept. Equipment1921	22,000.00	11,000.00	00.099	11,000.00	55,000.00	4	May
Ext. Mains Dept. Equipment1924	30,000.00	6,000.00	1,215.00	24,000.00	30,000.00	41/2	Mar.
1919 Engine	50,000.00	10,000.00	2,250.00	40,000.00	50,000,00	41/2	Sept.
Engine Foundation	15,000.00		356.25	15,000.00	15,000.00	434	
Total	\$1,433,750.00	\$63,000.00	\$57,173.75	\$370,750.00	*		

LOWELL WATER WORKS

		\$27,306.72			100.501.16			124.264.99			17 071 04	11,011.0±			26,634.61		\$295,778.52	63,000.00		\$415,952.27	249.63	00 100 0100	\$416,201.90
d_{r} , 1920	\$25,669.28	1,637.44		\$82.629.44	17,871.72		\$45 131 87	79,133.12		\$11 200 96	00.000;11¢	9,110.00		\$12,168.97	14,465.64								
Expended, 1920 Administration Expense:	Payroll	Supplies	General Expense:	Pavroll	Supplies	Dimning Station Expanse.	Parroll	Supplies	Meter Expense	Dorrand 1	I dy tom	Sanddne	Construction Expense:	Pavroll	Supplies		T - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Interest payments	Time by more series		Refunds	F	Total Expended
Total	Totai	\$62,362.00	85,672.59	15,833.89	143,315.82	87,266.99			\$394,451.29		\$ 3,730.21	10000	\$398,181.56	-	6,529.21		\$391,652.29	19 733 91	10,100,101	\$371,918.38	273.71	00000	\$372,192.09
s, 1920 . Water	Water	\$58,720.24	81,384.24	15,833.89	136,616.59	80,918.99) (,459.26 \$373,473.95		\$1,705.69		\$375,179.64		4,160.95	-	\$371,018.69		10:17:11:				
$rac{and\ Receipts,\ 1920}{ m Labor}$	Const.	\$1,872.86	1,752.70		1,642.77	3,190.93		()	\$8,459.26		\$ 297.29		\$8,756.55		1,556.27		\$7,200.28				S.		ts Si
Charges and Stock	Main't	\$1,768.90	2,535.65		5,056.46	3,157.07			\$12,518.08		0 \$1,727.23		\$14,245.31		811.99		\$13,443.32	sı			s from Dept		Total Receipts
		JanMar.	AprJune	May	July-Sept.	OctDec.		Total	charges	Add	Tr. Jan. 1-20 \$1,727.23		Total	Less	Tr. Jan. 1-21 811.99		Total	Less abatements			Add Transfers from Depts		

FINANCIAL STATEMENT LOWELL WATER WORKS, 1920

Maintenance

Labor		
Office and officials	\$25,669.28	Thank in
Pumping stations	45,131.87	
Filter	15,380.69	
General maintenance	67,248.75	
Meters	11,300.96	
	 .	\$164,731.55
Material: Water works supplies	\$16,847.37	
Pumping station supplies	9,593.01	
Coal		
Stable	7,577.13	
Filter	854.74	
		\$104,412.36
		\$269,143.91
Construction	·	
Labor	\$12,168.97	Λ.
Material	14,465.64	
		\$26,634.61

FINANCIAL STATEMENT LOWELL WATER WORKS, 1920

Appropriation for Department Equipment

Bal. Jan. 1, 1920	\$52,201.46
Loan	15,000.00
	\$67,201.46
Expended	\$50,419.15
:	A + 40 C + 1
Balance to 1921	\$16,782.31
35,181,00	***
Appropr	iation for Purchase of Land
Balance Jan. 1, 1920	\$3,783.76
Expended	1.31
*:	Balance to 1921 \$3,463.51
10 C C C C C C C C C C C C C C C C C C C	
\$260 FFF 000 \$	
	$\cdot = R(\cdot \cdot (\cdot \cdot \cdot \cdot \cdot \cdot x))$

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to the control of the

Superintendent's Report

Lowell, Mass., January 1, 1921.

Mr. John F. Salmon,

Howboll

-17

Commissioner of Water Works and Fire Protection of the City of Lowell, Massachusetts.

Dear Sir:

Herewith are submitted tables showing operations of the Department for the year ending December 31, 1920.

NEW HYDRANTS, 1920

Bunker Hill St.	Boston	\mathbf{Post}	Hydrant
Groton St.	Boston	Post	Hydrant
Joffre St.	Ludlow	Hyd	lrant

HYDRANTS CHANGED, 1920

	,	
Location	Taken Out	Set
Bodwell	Boston Post	Ludlow
Central, opp. Lyons	Ludlow	4.6
Gershom Ave., cor. Crawford	Chapman	"
Grand, cor. Daly	Flush	44
High, cor. Ea. Merrimack		. **
Hutchinson		44
John	Chapman	4.4
Lewis, cor. Market	Flush	"
Liberty, cor. Hastings	7 - 66	"
Liberty, cor. School		"
Merrimack, opp. Green School	A. P. Smith	4.6
610 Middlesex	Ludlow	"
Newhall, cor. Crosby	Flush	44
Pawtucket, cor. Arlington	Pratt and Cady	6.6
Stevens, cor. Princeton	Flush	"
Stevens, opp. 233		"
31 West Ninth		"
Worthen, cor. Market		"
Opp. 341 Worthen	Chapman	"

19 Hydrants changed 1920

NEW SERVICES, 1920

No.	Kind	Feet	In.
123		4,885	9
12	1 in. Galvanized Iron	369	5
8	$1\frac{1}{2}$ in. Galvanized Iron	266	7
6	2 in Galvanized Iron	201	2
39		1,280	6
1	3 in. Wrought Iron	36	8
1	4 in. Cast Iron	162	9
4	6 in. Cast Iron	205	4
1	8 in. Cast Iron	57	8
	· · · · · · · · · · · · · · · · · · ·		
195		7,465	10

Total previously laid 569,329 :	feet
Total now laid	feet
Total number services laid 15,	395
Total number cut off at main1,	104
Total number reconnected	102
Total number now in use14,	393
Average length of service40.74	feet

SERVICES CHANGED — 1920

				C	HANGED	то			
No.	Kind	Gal. Iron	Gal. Iron	Gal. Iron	Gal. Iron	L. L.	L. L.	Tot	al
	13	3⁄4 in.	1 in.	1½ in.	2 in.	34 in.	1 in.	Feet	Inches
27	¾ in. Iron	546-3						546	3
27	3/4 in. Iron					71-5		71	5
∑ 5	¾ in. Iron	110-11		1			1	110	11
31	34 in. Iron						17-6	17	6
1	1 in. Iron						25-6	25	6
32	1 in. Iron					65-6	·	65	6
(77	1; in. Iron		150-1	1				150	1
£3	1 in. Iron	3038-6			.,			3,038	6
d	1½ in. Iron	33						33	
ිදු	1½ in. Iron			41-10				41	10
.3.	1 ½ in. Ir n		48					48	
olt.	2 in Iron				14			14	
51	¾ in. T. L. I.	1277						1,277	
8	34 in. T. L. I.		244					244	
11	34 in. T. L. I.					210-11		210	11
.3	1 in. T. L. I.		71-6				'	71	6
1	1 ½ in. T. L. I.		7					7	
:10	% in. Lead	148-2						148	2
2	5% in. Lead		107-8			.:	1.	. 107,	8
23	¾ in. Lead	295-11					:	295	11
1	1 in. Lead	10		١.				10	
6	1 in. Lead		80					80	
3	1 in. Lead						43	43	
10	34 in. L. L. I.	248-10						248	10
1	1 in. L. L. I.		6-10					. 6	. 10
187		5597-8	826	41-10	14	347-10	86	6,913	4

METERS RUNNING JANUARY 1, 1921

Sizes in Inches	5/8′′	34''	1"	1 1/2"	2"	3"	4"	6"	8"	Total
Columbia	64	1								65
Crown	3206	1649	332	26	47	7	7	5		5,279.
Desper	14	4	3							21
Duplex	1		1			2				2:
Empire	272	44	10	4	7	5	1			343.
Empire Compound						1	1	*		2
Gem					5	1	4			10
Gem Empire										2
Hersey	2059	265	57	22	17	2	2	1	2	2,427
Hersey Detector						1	8	27	4	40
Keystone	63				1				١,	64
King	80	3							1	83
Lambert	812	89	19		2					922:
Nash	570	118	56		2					746
Niagara	1									1
Thompson	6	11	1							18:
Torrent						1	2			3.
Trident	573	34	. 1	1						609
Trident Protectus								1	1	2.
Union	26	7								33
Watch Dog	955	56	36	11	17		1 -			1,076
Watch Dog Compound	-	4				2	- 1			2
Worthington	33		25	26	25	6	2			117
Worthington Disc	756	35	22	11	12	4				840
Total	9491	2316	563	101	135	30	30	34	7	12,707

HYDRANTS, JANUARY 1, 1921

, Kind	Flush	2 Noz.	3 Noz.	4 Noz.	Total
Boston Machine			167		167
Chapman		3	114	51	168
C offin			1		1
Corey			61		61
Eddy			32	1	33
Fairbanks			19		19
Flush	209				209
Glanmorgan			1		1
Holyoke			1		1
Kennedy			1		1
Lowrey					7
Ludlow		29	660	14	703
Michigan			4		4
O'Brien			1		1
A. P. Smith			47		47
Perkins		.)		1	1
Pratt & Cady			25		25
Walker			17		17
Totals	209	32	1,151	67	1,466

LOW SERVICE — WATER PIPE LAID DURING THE YEAR 1920

			Length of Pipe in			
Street	Location	4"	6''	8"	12"	
Alma Lt.	From Riverside St., easterly			154.8		
Alma St	From cld end westerly			36.0		
Arcadia Ave	From cld end northerly		96.0			
Broadway	From Wilder St., westerly			359.3	495.0	
Brown St	From old end, northerly		10.0	182.0		
Bunker Hill St	From West Sixth St., northerly		298.0			
Delard St	From old end, northeasterly		314.0			
Delard St	From old end, opp. Riverview Ave., southerly		48.0			
Fairgrove Ave	From old end, northerly		48.0			
Groton St	From Rogers St., northerly		353.0			
Howe St	Fire Service, Dana Garage		14.0			
Jackson St	Fire Service, Hamilton Co		52.0		•	
Joffre St	From Middlesex St., southerly		432.0			
Market St	Fire Service to Courier Citizen		122.3			
Seneca St	From old end, easterly		84.0			
Wilder St	Service to Morey School	163.3				
	dan sacr	163 3	1871.3	739 10	495.0	
	\$17.00 m 1	100.0	1071.5	752.10	100.0	

HIGH SERVICE — WATER PIPE LAID DURING THE YEAR 1920

			Length	in Feet	-
Street .	Location	4"	6"	8"	12"
Butman Rd	From old end, opp. No. 145, southerly		156.0		

LOW SERVICE — WATER PIPE REMOVED DURING THE YEAR 1920

	1.	Length	in Feet
Street	' Location	6"	8"
Stackpole St	East Merrimack to Brown	300.	

SMALL SIZE DISTRIBUTION PIPE LAID DURING THE YEAR 1920

	The state of the s	Length in Feet			
Street	Location	34"	1‴	1 1/2"	
	From end old pipe, southerly		91. 202.		
East Meadow Rd	From end old pipe, westerly From Mt. Pleasant St., easterly			108. 217.	
	From Midland St., southerly	20.4	92.5	90.0	
		20.4	385.5	415.	

LOW SERVICE — LIST OF STOP GATES SET DURING THE YEAR 1920

Street	Location			Siz	ze	
		4"	6"	8"	10"	12"
Alma St	On east line Riverside St., 13 ft. south of south line Alma St.			. 1		
Baldwin St	9 ft. south of north line Princeton St., 26 ft. east of west line Baldwin St.		1			
Broadway	On Service to Weaving Co., 12 ft. north of south line Broadway			1	٦,	
Brown St	On south line Stackpole St., 12 ft. west of east line Brown St.			1		,
*Bunker Hill St	16 ft. north of south line West Sixth St., 12 ft. east of west line Bunker Hill St.		1			,
Central St	78 ft. north of Floyd St., 9 ft. east of west line Central St. on Hydrant		1			
Gershom Ave	On south line Moody St., 12 ft. east of west line Gershom Ave.		_1			
Gershom Ave	2 ft. north of north line Crawford St., 9 ft. east of west line Gershom Ave. on Hydrant		1			
Groton St	On north line Rogers St., 10 ft. east of west line Groton St.		1			
High St	38 ft. north of north line East Merrimack St., 13 ft. west of east line High St. on Hydrant		1			
*Howe St	23 ft. north of north line Davidson St., 12 ft. east of west line Howe St. on Service		1			- 2
*Jackson St	5 ft. east of Hamilton Co. gate, 21 ft. north of south line Jackson St.		1			
Joffre St	18 ft. north of north line Middlesex St., 12 ft. east of west line Joffre St.		1			31)# 3.
*Joffre St	On south line Middlesex St., 12 ft. east of west line Joffre St		1			110
John St	68 ft. south of south line French St., 12 ft. east of west line John St. on Hydrant		1			
Lewis St	On south line Market St., 7 ft. west of east line Lewis St. on Hydrant		1			
Liberty St	52 ft. west of west line School St., 15 ft. south of north line Liberty St. on Hydrant		1			
Liberty St	On west line Hastings St., 11 ft. south of north line Liberty St. on Hydrant		1			
*Market St	16 ft. east of Merrimack Canal, 9 ft. south of north line Market St. on Service		1			
Stevens St	Opp. No. 233, 9½ ft. east of west line Stevens St. on Hydrant		1			
Stevens St	3 ft. south of south line Princeton St., 9½ ft. east of west line Stevens St. on Hydrant		1			<i>1</i> '
*Wilder St	8 ft. north of north line Morey School Addition, 25 ft. east of west line Wilder St.	1				
Worthen St	3 ft. south of south line Market St., 11 ft. east of west line Worthen St.		1			
		1	19	3		

LOW SERVICE — LIST OF STOP GATES REMOVED DURING THE YEAR 1920

Street	Location			Siz	e	
	1	4''	6"	8"	10"	12"
Border St	2 ft. east of east line Main St., 7 ft. north of south line Border St.		1			

LOW SERVICE — LIST OF HYDRANTS SET DURING THE YEAR 1920

Street	Kind	Location
		On end on west side opposite Unsworth St
High St	Ludlow	On east side, 38 ft. north of East Merrimack St
		On south side at Brown St On west side at end

LOW SERVICE — LIST OF HYDRANTS REMOVED DURING THE YEAR 1920

Street	Kind	Location
Stackpole St	Ludlow	On west side corner East Merrimack St On north side at Whittier Mill

SUMMARY

SIZ	ZE
High Service Hydrants removed in 1920	0
Low Service Hydrants removed in 1920	
High Service Hydrants set in 1920	0
Low Service Hydrants set in 1920	5
Total 801,900.5 "	52,766.0 "
30" 4,563 "	
24" 9,194 "	
20" 8,659 "	1,001
16" 26,235.9 " 16"	4,884 "
10"	2,931 " 7,885 "
8" 163,516.4 " 8"	4,758.5 "
6" 452,315.6 " 6"	30,800.5 "
4" 34,360.3 feet 4"	1,507 feet
LOW SERVICE HIGH SERVICE	Œ
Total High and Low Service Jan. 1, 1921 Total pipe in use Jan. 1, 1921, in miles	854,666.5 ft. 161.87
Total High Service water pipe in use Jan. 1, 1921	52,766. ft.
High Service water pipe removed 1920 000. f	t .
52,766. f	t.
High Service water pipe laid previous to 1920 52,610. f	t.
High Service water pipe laid in 1920 156. f	t.
Total Low Service water pipe in use Jan. 1, 1921	801,900.5 ft.
	t.
802,200.5 f	t
Low Service water pipe laid previous to 1920 798,938.8 f	t.
Low Service water pipe laid in 1920 3,261.7 f	t.
D Chillitait I	

			SI	ZE		
	4''	6"	8"	12"	_	
Low Service Stop Gates set in 1920	1	19	3	0	0	= 23
Low Service Stop Gates removed in 1920	0	1	0	0	0	= 1
High Service Stop Gates set in 1920	0	0	0	0	. 0	= 0
Low Service Stop Gates set in 1920 Low Service Stop Gates removed in 1920 High Service Stop Gates set in 1920 High Service Stop Gates removed in 1920	0	0	0	0	0	= 0

METERS

Meters running January 1, 1920	12,445
New Meters set 1920	
Meters condemned 1919—Replaced 1920 1	
Meters discontinued	
Meters condemned and not replaced 5	
Total increase for year	262
Meters running January 1, 1921	12,707
Meters condemned and replaced	
Private meters sold	
Private meters repaired 10	
Meters changed	
Meters stopped	
Meters frozen and repaired 269	
Meters stored at shop	
Meters leaking	
Meters out for test	
Meters discontinued	
Temporary meters set	

Respectfully submitted,

ROBERT GARDNER,

Superintendent.

Report of the City Engineer

OFFICE OF THE CITY ENGINEER,

LOWELL, MASS., January 1, 1921.

To the Commissioner of Water Works and Fire Protection:

DEAR SIR:-

4th viz .

I have the honor to submit the forty-eighth annual report for the year ending December 31, 1920:

PUMPAGE

Total Net Pumpage for 19202,620,913,964 gations
Total Net Pumpage for 1919
Increase in 1920
CONSUMPTION
CONSUMITION
Consumption in 1920
Consumption in 1919
Increase in 1920
The maximum pumpage for any one day was on Wednesday, Feb.

Acti, Table		
At West Sixth	Street Station	5,730,700 gallons
At Cook Wells	Station	3,230,208 gallons

22 REPORT OF COMMISSIONER OF WATER WORKS

The maximum pumpage for one week was of the week of February
1st to February 7th, viz.:
At West Sixth Street Station 39,167,142 gallons
At Cook Wells Station
Total 61,469,862 gallons
High Service Pumpage for 1920, estimated 39,912,100 gallons
High Service Pumpage for 1919, Pump record 167,502,188 gallons
Cost of Low Service Pumpage in 1920 \$38.65 per million gals.
Cost of Low Service Pumpage in 1919 \$29.86 per million gals.
Increase in 1920
Cost of High Service Pumpage in 1920 \$67.33 per million gals.
Cost of High Service Pumpage in 1919 \$27.23 per million gals.
Cost of Low Service Pumpage, exclusive of
Cook Wells, in 1920
Total Cost of High Service Pumpage (Cost of
Low Service plus Cost of High Service,
exclusive of Cook Wells), in 1920 \$105.85 per million gals.

TABLE SHOWING QUANTITY PUMPED EACH MONTH AT THE SEVERAL STATIONS DURING THE YEAR 1920

				PUMPI	PUMPING STATIONS	SNC					
			Driven Wells				West S	West Sixth Street		Grand	Net
Mos.	5	Pawi	Pawtucket Boulevard	rd	to N	Worthing-	Allie	Total	High	Totals	Totals
	Wells	Holly Pump	Kerr Turbine	Totals	Totals	ton Low Duty	Chalmers	Low Service	Service		
Jan	72,333,632	174,120,000	174,080,970	348,200,970	72,333,632		176,353,470	176,353,470	2,805,500	599,693,572	248,687,102
Feb	89,367,360	149,100,000	149,072,870	298,172,870	89,367,360		151,139,565	151,139,565	2,404,100	541,083,895	240,506,925
Mar	71,223,552	169,755,000	169,201,367	338,956,367	71,223,552		169,315,900	169,315,900	3,072,100	582,567,919	240,539,452
April	5,544,448	193,725,000	193,409,500	387,131,500	5,544,448		201,487,450	201,487,450	3,120,000	597,286,398	207,031,898
May	6,075,072	201,469,350	201,139,850	402,609,200	6,075,072	20,330,000	190,404,980	210,734,980	3,084,500	622,503,752	216,810,052
June	51,904,000	146,185,000	144,942,150	291,127,800		51,904,000 142,210,000		142,210,000	2,394,000	487,635,800	194,114,000
July	41,340,480	164,850,000	164,098,150	328,948,150	328,948,150 41,340,480 38,674,000	38,674,000	132,489,796	171,163,796	3,431,700	544,884,126	212,504,276
Aug		221,670,000	221,114,500	442,784,500			230,179,969	230,179,969	3,878,100	676,842,569	230,179,969
Sept		208,545,000	208,084,500	416,629,500			219,793,055	219,793,055	3,813,000	640,235,555	219,793,055
Oct		211,020,000	210,240,500	421,260,500			218,038,180	218,038,180	3,918,400	643,217,080	218,038,180
Nov		185,925,000	185,418,000	371,343,000			197,765,447	197,765,447	3,660,000	572,768,447	197,765,447
Dec		185,190,000	184,834,700	370,024,700		/	194,943,608	194,943,608	4,330,700	569,299,008	194,943,608
1000	927 788 544	9 911 858 000	997 788 KM 9 911 KKK DOO 9 90K KW 7 DK7 A 417 109 DK7 227 788 KM 901 914 DDD 9 DK8 191 490 9 988 195 490 30 912 100 7 078 D18 121 2.620.913.964	4 417 199 057	327 788 544	901 914 000	9 081 911 490	9 983 195 490	39.912.100	7.078.018.121	2.620.913.964
Torans .	11000000	2,211,000,000	100,100,002,12	1,11,12,001	120,000,100	200,411,000					

TABLE SHOWING SOURCE OF SUPPLY, QUANTITY PUMPED, AND COST OF PUMPING AT THE SEVERAL STATIONS DURING THE YEAR 1920

	<u>~~</u>	Source of Supply — Well Water	- Well Water		Cost	st
Pumping Station	555 Driven Wells at Pawtucket Boulevard	210 Driven Wells in Valley of River Meadow Brook	Distributing Mains of Low Service System	Totals in U. S. Gallons	Totals	Per Million Gallons
West Sixth Street — Low Service	2,283,125,420			2,283,125,420	\$41,787.12	18.30
High Service			39,912,100	39,912,100	2,687.04	67.33
Cook Wells.	:	337,788,544		337,788,544	14,996.64	44.40
Lower Boulevard	2,205,637,057			2,205,637,057	44,516.51	20.18
Total Pumpage				4,866,463,121	103,987.31	21.37
Deduct Quantity at Lower Boulevard	2,205,637,057		39,912,100	2,245,549,157		
Pumped by High Service						
Net Pumpage				2,620,913,964	103,987.31	39.68
Cost exclusive of High Service				2,620,913,964	101,300.27	38.65
Cost exclusive of High Service and Cook Wells	:			2,283,125,420	86,303.63	37.80
T9tal Cost High Service Pumpage				39,912,100	4,224.30	105.85

The following tables, showing the performance of the engines, depth and quantity of water in the Beacon Street Reservoir and Christian Street, Reservoir, average temperature of the air and water at the Christian Street Reservoir, and the average monthly and daily consumption of water have been calculated and compiled from the records kept by the engineers and gate-keeper.

TABLE SHOWING WORK DONE WITH ALLIS-CHALMERS ENGINE, AT WEST SIXTH STREET PUMPING STATION FOR EACH MONTH DURING THE YEAR 1920

Months	No. of days Pumping	Average No. of hours Pumping per day	No. of hours Pumping per Month	No. of Strokes made per Month	Average No. of Strokes made per Minute	Average head including friction in feet	Quantity Pumped Per month in U. S. Gallons	Average Quantity Fumped Per day in U.S. Gallon	No. Gals. of water pumped into res. per lb. total coal con-sumed	Duty in lbs. 1 foot high with 100 lbs. coal ueed in Pumping only no deduction for ashes or clinkers	Duty on total ecal consumed no deduction for ashes or clinkers
January	31	24-00	744	1,268,730	28.40	184.09	176,353,470	5,688,821	1,054	161,599,641	161,599,641
February	29	24-00	969	1,087,335	26.10	190.87	151,139,565	5,211,709	1,163	184,821,005	184,821,005
March	31	23-40	734	1,218,100	27.68	190.87	169,315,900	5,461,803	1,000	160,191,706	160,191,706
April	30	23-34	202	1,449,550	34.15	190.87	201,487,450	6,716,248	805	128,054,894	128,054,894
May	27	23-31	635	1,369,820	35.90	190.87	190,404,980	7,052,036	220	122,225,410	122,225,410
June	0	:	. :	:	:			:	:	:	:
July	23	23-08	532	953,164	30.81	190.87	132,489,796	5,760,426	896	154,851,495	154,851,495
August	31	23-54	741	1,655,971	37.21	190.87	230,179,969	7,425,160	877	139,628,261	139,628,261
September	30	23-26	703	1,581,245	37.50	190.87	219,793,055	7,326,435	988	141,208,347	141,208,347
October	31	23-54	741	1,568,620	35.05	190.87	218,038,180	7,033,489	928	147,423,430	147,423,430
November	30	23-51	7151/2	1,422,773	33.15	190.93	197,765,447	6,591,181	855	135,933,696	135,933,696
December	31	23-14	720	1,402,472	31.70	193.17	194,943,608	6,288,503	1,030	165,847,278	165,847,278
Totals and Averages.	324	23-40	7,6681/2	14,977,780	33.00	190.45	2,081,911,420	6,425,652	930	147,710,416	147,710,416

TABLE SHOWING WORK DONE WITH DEAN ENGINES AT COOK WELLS PUMPING STATION, FOR EACH MONTH DURING THE YEAR 1920

Months pu	No. of days pump- ing	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head including friction in feet	Quantity pumped per month in U. S. Gallons	Average quantity pumped per day in	No. Gallons of water pumped into distributing mains per lb. total coal consumed	Duty in lbs. 1 ft. high with 100 lbs. total coal used, no deduction for ashes or clinkers
Iannary	31	24-00	744	1,130,213	25.32	171.68	72,333,632	2,333,343	208	29 857 448
February	53	24-00	969	1 396 365	33.45	170.86	89 367,360	3,081,633	220	. 31,377,297
March	31	23-09	718	1,112,868	25.87	181.92	71,223,552	2,297,534	210	31,935,049
April	rs	17-00	85	86,632	17.00	193.88	5,544,448	1,108,890	221	35,873,483
May	4	20-30	82	94,930	19.30	168.58	6,075,072	1,518,768	202	28,481,203
June	30	24-00	720	811,000	19.20	165.47	51,904,000	1,730,133	569	35,753,851
July	24	24-00	929	645,945	18.70	165.80	41,340,480	1,722,520	282	38,927,852
August	:	:	:	:	.:	:		:	:	
September	:	:	:	:	:	:			:	
October	:	:	:		:	:			:	
November	:	:	:	:	:	• :	:		:	
December.	:	:	:		:	:				
Totals and Averages	154	23-31	3,621	5,277,946	24.30	168.03	337,788,544	2,193,432	977	31,699,937

TABLE SHOWING WORK DONE WITH HOLLY HIGH DUTY ENGINE (CRANK AND FLY WHEEL) AT LOWER BOULEVARD PUMPING STATION FOR EACH MONTH DURING THE YEAR 1920

Months	No. of days Pump-	Average No. of hours Pumping per day	No. of hours Pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head including friction in feet	Quantity pumped per month in U. S. Gallons	Average Quantity Pumped per day in U. S. Gallons
January	31	23-49	7381/2	1,160,800	26.19	57.88	174,120,000	5,616,774
February	59	23-57	695	994,000	23.82	57.47	149,100,000	5,141,379
March	31	23-40	733¾	1,131,700	25.70	57.25	169,755,000	5,475,968
April	30	23-20	200	1,291,500	31.50	56.50	193,725,000	6,457,500
May	31	23-50	736	1,343,129	30.85	55.58	201,469,350	6,499,011
June	30	23-28	704	974,571	22.73	50.69	146,185,650	4,872,855
July	31	23-02	714	1,099,000	25.67	50.26	164,850,000	5,317,741
August	31	23-44	73534	1,477,800	33.50	54.70	221,670,000	7,150,645
September	30	23-06	6931/4	1,390,300	33.43	56.14	208,545,000	6,951,500
October	31	23-33	730	1,406,800	32.12	56.14	211,020,000	6,807,097
November	30	23-51	7151/2	1,239,500	28.87	53.93	185,925,000	6,197,500
December	31	23-36	73134	1,234,600	28.12	53.68	185,190,000	5,973,871
Totals and Averages	366	23-34	8,6271/2	14,743,700	28.48 /	55.00	2,211,555,000	6,042,500

TABLE SHOWING AMOUNT OF COAL USED FOR ALLIS-CHALMERS ENGINE AT PUMPING STATION, WEST SIXTH STREET, DURING THE YEAR 1920 ·

	COAL CONSUMED			
Months	For Starting Fires in pounds	When Pumping in pounds	For Banking Fires in pounds	Total in pounds
January		167,223		167,223
February		130,223	1	130,223
March	1	168,313		168,313
April		250,560		250,560
May	1	248,072		248,072
June			1	
July		136,247	1	136,247
August		262,515		262,515
September		247,864		247,864
October	;	235,519		235,519
November		231,750		231,750
December	1	189,436		189,436
Totals		2,240,693		2,240,693

TABLE SHOWING AMOUNT OF COAL USED FOR DEAN ENGINES AT PUMPING STATION, COOK WELLS, DURING THE YEAR 1920

	COAL CONSUMED			
Months	For Starting Fires in pounds	When Pumping in pounds	For Banking Fires in pounds	Total in pounds
January		347,000		347,000
February		406,000		406,000
March	1,600	336,900		338,500
April		25,000		25,000
May	1,600	28,400		30,000
June	1,600	198,810	,	200,410
July		146,900		146,900
August	•			
September				
October				
November		•		
December				
Totals	4,800	1,489,010		1,493,810

TABLE SHOWING AMOUNT OF COAL USED FOR HOLLY ENGINE AND KERR TUR-BINE, AT BOULEVARD PUMPING STATION, DURING THE YEAR 1920

		COAL CO	ONSUMED	•	Gals.
Months	For Starting Fires in pounds	When Pumping in pounds	For Banking Fires in pounds	Total in pounds	into conduit per lb. total coal consumed
January	500	260,990		261,490	666
February	1,000	225,340		226,340	660
March	1,000	268,620		269,620	628
April		278,330		278,330	695
May	1,000	284,035		285,035	705
June	1,000	197,810		198,810	728
July		215,125		215,125	763
August	. 1,500	280,470		281,970	748
September		264,665		264,665	786
October		269,505		269,505	780
November		251,760		251,760	737
December		255,870		255,870	723
Totals	6,000	3,052,520		3,058,520	723

WEST SIXTH STREET PUMPING STATION, ALLIS-CHALMERS ENGINE; RUNNING EXPENSES FOR THE YEAR 1920

Pay of Engineers and Firemen	\$17,909.23
27. 1120-2240 tons (1919) coal at \$11.89	326.95
200. 139-2240 tons (1920) coal at \$12.04	2,409.92
896. 554-2000 tons (1920) coal at \$14.06	12,598.86
Engine Repairs	236.62
Boiler Repairs	1,547.56
Elec. Engine Repairs	206.34
Supplies	1,236.66
Sundries	214.98

WEST SIXTH STREET PUMPING STATION, HIGH SERVICE ENGINE; RUNNING EXPENSES FOR THE YEAR 1920

Pay of Engineers and Firemen	\$ 339.80
3. 1288-2240 tons of coal (1919) at \$11.89	42.50
26. 1777-2240 tons of coal (1920) at \$12.04	322.71
118. 70-2000 tons of coal (1920) at \$14.06	1,651.26
Supplies	114.05
Engine Repairs	216.72

COOK WELLS PUMPING STATION, DEANE ENGINES: RUNNING EXPENSES FOR THE YEAR 1920

Pay of Engineers and Firemen	\$5,726.70
27. 000-2240 tons of coal (1919) at \$8.28	223.56
143. 666-2000 tons of coal (1920) at \$11.71	1,678.39
511, 2024-2240 tons of coal (1920) at \$13.51	6,915.77
Engine Repairs	31.20
Boiler Repairs	252.77
Supplies	69.27
Sundries	98.98
Total	\$14,996.64

Cost of pumping water into distributing mains, per million gallons, \$44.39+

Cost of pumping water 1 foot high, per million gallons, \$0.26 42/100

LOWER BOULEVARD PUMPING STATION, HOLLY ENGINE AND KERR TURBINE, RUNNING EXPENSES FOR

THE YEAR 1920

Pay of Engineers and Firemen	\$19,417.19
60. 000-2240 tons of coal (1919) at \$9.87	592.00
536. 2183-2240 tons of coal (1920) at \$11.62	6,238.86
865. 529-2000 tons of coal (1920) at \$16.13	13,954.82
Engine Repairs	357.59
Boiler Repairs	2,636.87
Supplies	938.54
Sundries	380.64

Cost of pumping water into conduit, per million gallons, \$20.18+ Cost of pumping water 1 foot high, per million gallons, \$0.36 70/100

WEST SIXTH STREET PUMPING STATION, WORTHINGTON DUPLEX ENGINE; RUNNING EXPENSES FOR THE YEAR 1920

Pay of Engineers and Firemen	\$1,738.95
5. 1736-2240 tons of coal (1919) at \$11.89	68.66
42. 695-2240 tons of coal (1920) at \$12.04	509.66
189. 1103-2000 tons of coal (1920) at \$14.06	2,664.69
Supplies	116.40
Sundries	2.37
Total	\$5,100.73
Cost of pumping water into reservoir per million gallons, \$	25.35+

Cost of pumping water 1 foot high per million gallons, \$0.15 10/100

BEACON STREET RESERVOIR — 1920

	Depth	Quantity	Temperature in Degrees	
Months		U. S. Gallons	of Water	. of Air
January	18.39	27,820,325	36.5	18.4
February	19.48	29,636,886	34.2	25.0
March	20.32	31,061,448	35.6	26.9
April	20.82	31,912,341	43.8	44.2
May	20.79	31,859,014	55.4	55.3
June	20.15	30,770,083	64.1	66.2
July	19.80	30,179,386	70.6	72.6
August	18.69	28,313,381	74.3	72.5
September	18.74	28,400,055	67.1	63.8
Octaler	18.85	28,582,275	59.5	57.7
November	19.28	29,304,823	45.1	38.3
Pecember	19.09	28,990,960	34.7	. 31.3

CHRISTIAN STREET RESERVOIR — 1920

Months January	Elevation of Water	U. S. Gallons	of Water	
January			or tracer	of Air
	197.39	2,011,861	48.0	18.4
February	195.65	1,656,632	48.0	25.0
March	205.20	3,606,138	48.0	26.9
April	204.41	3,445,545	47.9	44.2
May	203.67	3,293,455	47.0	55.3
June	195.42	1,608,779	49.0	66.2
July	196.84	1,899,130	53.2	72.6
August	200.62	2,671,270	57.2	72.5
September	203.50	3,259,421	60.5	63.8
October	206.91	3,956,053	62.2	57.7
November	207.35	4,045,390	, 60.1	38.3
December	206.41	3,853,951	56.1	31.3

TABLE SHOWING THE AVERAGE MONTHLY AND DAILY CONSUMPTION OF WATER FOR THE YEAR 1920

Months	Gallons per Month	Gallons per Day
January	247,184,593	7,973,696
February	236,747,230	8,163,698
March	235,598,484	7,599,951
April	207,165,240	6,905,508
May	218,875,318	7,060,494
June	195,811,042	6,527,035
July	214,266,219	6,911,813
August	228,641,345	7,375,527
September	220,407,793	7,346,926
October	214,896,231	6,932,137
November	198,817,217	6,627,241
December	196,407,998	6,335,741
Totals and Averages	2,614,818,710	7,144,313

The following table shows the average daily consumption of water, in gallons, for each month and each year from January 1900 to January 1921.

AVERAGE DAILY CONSUMPTION OF WATER IN GALLONS FOR EACH MONTH AND YEAR FROM JANUARY, 1900, TO DECEMBER, 1920, INCLUSIVE

For the	Year	7.893.356 7.059.631 5.726.325 5.786.823 5.266.823 5.267.325 5.267.365 5.240.385 5.240.385 5.240.385 5.240.385 5.240.385 5.240.385 5.240.385 5.240.385 6.642.365 6.647.372 6.747.24 7.144.243
	December	7,844,543 6,197,726 6,197,726 5,112,584 6,257,670 6,269,259 6,269,259 6,234,080 6,234,
	November	7, 292,997 4, 613,552 4, 550,887 4, 550,887 4, 423,525 4, 422,525 4, 423,525 4, 423,525 4, 423,525 4, 423,525 5, 419,525 5, 419,522 5, 419,522 5, 515,535 6, 321,974 6,
	October	7,386,297 6,183,286 4,940,185 4,940,185 4,940,185 4,980,724 5,137,479 5,137,479 6,611,007
	September	8,138,836 6,514,839 5,436,1352 5,417,024 5,417,024 5,426,255 5,420,566 5,470,110 6,5420,431 6,438,210 6,438,210 6,438,210 6,438,210 6,438,310 6,43
	August	8, 288, 526 6, 766, 772 5, 963, 910 5, 918, 208 5, 138, 1,52 5, 138, 1,52 6, 027, 1,46 6, 087, 138 6, 167, 967 6, 187, 967 6, 822, 138 6, 822, 676 6, 822, 676 6, 823, 138 6, 823, 138 6, 823, 138 6, 823, 138 6, 823, 138 8, 837, 250 6, 668, 837 7, 678, 837 7, 678, 837 7, 678, 837 7, 678, 837 7, 678, 837 7, 678, 837 7, 678, 837 7, 678, 837 7, 678, 837 7, 678, 837
MONTHS	July	8,696,110 5,583,332 5,563,775 5,563,775 5,563,775 5,591,932 6,114,545 6,112,412 6,112,412 6,112,412 6,112,412 7,249,137 7,341,343 6,341,
MOI	June	8,037,993 7,183,342 6,217,117 5,512,402 5,562,331 5,647,233 5,547,233 5,547,233 6,727,331 6,727,448 6,727,
	May	5,724,911 5,518,925 5,518,935 5,220,707 5,023,717 5,023,717 5,023,717 5,023,717 6,134,977 4,94,923 4,94,932 6,134,973 6,134,97
	April	7,665,888 6,914,082 5,144,046 6,717,423 4,791,851 4,950,731 6,845,947 6,845,947 6,845,947 6,845,947 6,905,508 6,748,217 6,905,508
	March	8, 024, 115 8, 260, 895 5, 151, 749 5, 554, 904 5, 504, 104 6, 504, 104 6, 284, 140 6, 284, 184 6, 284, 184 6, 284, 184 6, 185 7, 185 7, 185 8,
	February	8,127,419 6,045,112 6,014,804 6,112,805 7,188,622 6,967,163 6,967,163 6,967,163 6,967,163 6,967,163 6,967,163 6,735,834 6,735,
	January	7,511,163 8,266,601 6,107,220 6,157,296 4,837,996 4,832,197 4,994,704 4,994,704 6,355,297 6,355,807 6,352,607 6,352,607 6,353,
Ves	rears	1900 1901 1902 1903 1904 1905 1908 1908 1917 1917 1918 1918 1918 1918 1918 191

SUMMARY OF STATISTICS

FOR THE YEAR ENDING DECEMBER 31, 1920.

In form recommended by the New England Water Works
Association

LOWELL WATER WORKS

LOWELL, MIDDLESEX COUNTY, MASSACHUSETTS

GENERAL STATISTICS

Population by census of 1920, 112,759.

Date of construction, 1870 to 1873.

Date of construction, High Service, 1881.

Date of construction, Driven Wells, 1893 to 1919.

By whom owned? The City of Lowell.

Source of supply: Two hundred ten (210) driven wells in the valley of River Meadow Brook, and five hundred fifty-five (555) driven wells at Pawtucket Boulevard.

Mode of supply: Pumping to reservoir and pumping direct.

PUMPING STATISTICS

1. Builders of Pumping Machinery.

AT WEST SIXTH STREET STATION

One engine, capacity 5,000,000 gallons in twenty-four hours, Henry R. Worthington.

One engine, capacity 8,000,000 gallons in twenty-four hours, Allis-Chalmers Company.

AT COOK WELLS STATION, TEMPORARY PUMPS

- One engine, capacity 3,000,000 gallons in twenty-four hours, The Deane Steam Pump Company.
- One engine, capacity 3,000,000 gallons in twenty-four hours, The Deane Steam Pump Company,

At Lower Boulevard Station .

- One engine, capacity 8,000,000 gallons in twenty-four hours, The Holly Manufacturing Company.
- One engine, capacity 8,000,000 gallons in twenty-four hours. The Holly Manufacturing Company.
- One engine, capacity 7,000,000 gallons in twenty-four hours, The Kerr Turbine Company.
- One engine, capacity 10,000,000 gallons in twenty-four hours, The Kerr Turbine Company.
 - . Kind, Bituminous.
- 2. Descriptions of fuel used:

 b. Brand of coal, New River.
 c. Average price of coal per gross
 ton delivered, \$14.74.
 d. Percentage of ash.
 e. Wood, price per cord.
- 3. Coal consumed for the year, 9,043,539.
- 4. Pounds of wood $\div 3$ = equivalent amount of coal.

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- 5. Total equivalent coal consumed for the year (3) + (4) 9,043,539 pounds.
- 6. Total pumpage for the year, 4,866,463,121 gallons.
- 7. Average static head against which Low Service pumps at West Sixth Street work, 173.63 feet.

Average static head against which pump at Lower Boulevard works, 43.57 feet.

8. Average dynamic head against which pumps work:

West	Sixth	Street,	Low	Service .	 190.45
West	Sixth	Street,	High	Service	 57.44
Lowe	r' Boul	breval			55.00

- 9. Number of gallons pumped per pound of equivalent coal (5) = 538.
- 10. Cost of pumping per million gallons, figured on pumping station expenses, viz., \$103,987.31, \$21.37.
- 11. Cost of purifying per million gallons, figured on filter expenses, viz., \$16,235.43, \$7.36+.

STATISTICS OF CONSUMPTION OF WATER

- 1. Estimated total population at date, 112,759.
- 2. Estimated population on lines of pipe, 112,759.
- 3. Estimated population supplied, 112,759.
- 4. Total consumption for the year, 2,614.818,710 gallons.
- 5. Passed through meters, 1,566, 968,744 gallons,
- 6. Percentage of consumption metered, 59.93.
- 7. Average daily consumption, 7,144,313 gallons.
- 8. Gallons per day to each inhabitant, 63.4.
- 9. Gallons per day to each consumer, 63.4.
- 10. Gallons per day to each tap, 496.45.
- Cost of supplying water per million gallons, figured on total maintenance, \$102.93.
- 12. Total cost of supplying water per million gallons, figured on total maintenance and interest on bonds, \$124.79.

STATISTICS RELATING TO DISTRIBUTION SYSTEM

Mains

- 1. Kind of pipe, cast iron.
- 2. Sizes, 4 inches to 30 inches.
- 3. Extended 3,417.7 feet during the year.
- 4. Total now in use, 161.87 miles.
- 5. Length of pipe less than 4 inches diameter, 4½ miles, more or less.
- 6. Number of hydrants added during the year (public and private), 2.
- 7. Number of hydrants (public and private) now in use, 1,466.
- 8. Number of stop gates added during the year, 22.
- 9. Number of stop gates now in use, 2,170.
- 10. Number of stop gates smaller than 4 inches, 56.
- 11. Number of blow-offs, 33.
- 12. Range of pressure on mains, 27 lbs. to 82 lbs., Low Service.

SERVICES

- 13. Kind of pipe, lead, lead-lined iron, iron and tin-lined iron.
- 14. Sizes, 5/8 in. to 8 in.
- 15. Extended, 7,465.8 feet.
- 16. Total now in use, 109.24 miles.
- 17. Number of Service Taps added during the year, 195.
- 18. Number now in use, 14,393.
- 19. Average length of service, 38,28 feet.
- 20. Average cost of service for the year, \$51.67.
- 21. Number of meters added, 272.
- 22. Number now in use, 12,707.
- 23. Percentage of services metered, 88.3%.
- 24. Percentage of receipts from metered water, 93.9%.

The Worthington High Service Pump became incapacitated for further service during the month of May; it had been in constant operation since its installation in the year 1881, hence it became necessary to use reservoir records in order to estimate the amount of water used by High Service System. This amount was found to be considerable less than the pump records had shown, which accounts for the increased cost per million gallons of High Service water.

Respectfully submitted,

STEPHEN KEARNEY,

City Engineer.



ANNUAL REPORT

OF THE

Births, Marriages and Deaths

OF THE

CITY OF LOWELL



FOR THE YEAR

1920

CITY OF LOWELL

OFFICE OF THE CITY CLERK, May 3, 1921

To the Municipal Council,

GENTLEMEN:

The annual report of Births, Marriages and Deaths for the year 1920, as of record in this office, is respectfully submitted as follows:

BIRTHS												
Wards	1	2	3	4	5	6	7	8	9	Total		
Whole Number	197	423	304	286	315	768	291	247	229	3060		
Males	92	222	152	166	165	374	151	118	110	1550		
Females	105	201	152	120	150	394	140	129	119	1510		
American Parents	90	62	143	90	87	206	132	141	116	1067		
Foreign Parents	48	322	82	160	191	334	89	49	49	1324		
American Fath Foreigh Moti	ner 19	13	31	18	18	103	38	24	33	297		
Foreign Father 40 American Mother		26	48	18	19	125	32	33	31	372		
Twins	2	8	5	4	3	7	2		1	27		
Triplets		1								1		

In addition 96 births are recorded, the parents being residents elsewhere, and 39 births occurring elsewhere of parents residents of Lowell. Still-births not included 120.

MARRIAGES

Fourteen hundred and twenty-three marriages were recorded in the year 1920, twelve hundred and twenty-one of which were solemnized in Lowell and two hundred and two solemnized elsewhere

MARRIAGES BY MONTHS

January 99	May 99	September 162
February 107	June 218	October 156
March 32	July 97	November 118
April 160	August 117	December 58

NATIONALITY OF CONTRACTING PARTIES

	Grooms	Brides
United States	890	905
Canada	188	- 192
Greece	98	93
Russia and Austria	66	58
Ireland	40	48
Portugal, Azores and Madeira	39	41
England	32	31
Italy	20	12
Scotland	5	9
Sweeden	9	3
Other Countries	37	30

Grooms under 21 years 91; Brides under 18 years 48.

DEATHS

The number of deaths in the city returned and recorded in 1920, exclusive of still-births, was 1770; males 892; females 878; fifty-one of this number being non-residents.

The deaths of 135 Lowell residents who died elsewhere being also recorded. Still-births 120.

Detailed statistics relative to deaths are contained in Report of Board of Health.

Very respectfully,

STEPHEN FLYNN.

City Clerk.



FORTY-THIRD ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

CITY OF LOWELL



For the Year 1920

PRINTED BY C. I. HOOD CO., LOWELL, MASS.



ORGANIZATION, 1920

BOARD OF HEALTH

PIERRE BRUNELLE, M. D., Chairman THOMAS F. CARROLL, M. D. JOHN E. DRURY

HEALTH DEPARTMENT OFFICERS

Office Employees

FRANCIS J. O'HARE, Agent

SPENCER D. BROWN, Fumigator

JOHN N. DRURY, M. D., Tuberculosis Examining Physician

WILLIAM A. JOHNSON, M. D., Vaccinating Physician

HAROLD L. LELAND, M. D., Attending Physician Genito-Urinary Clinic

JAMES Y. RODGER, M. D., Bacteriologist

BERTHA M. KIRWIN, R. N., Tuberculosis Nurse

MARY A. LYNCH, R. N., Nurse Genito-Urinary Clinic

ANNA A. O'DWYER, Child Welfare Nurse to Oct. 2, 1920.

LOIS A. TITCOMB, R. N., Child Welfare Nurse

HELEN V. TOMPKINS, R. N., Child Welfare Nurse

ELLEN E. McEVOY, Clerk to May 25, 1920

KATHARINE W. SNOW, Registrar

NAPOLEON MILOT, Nurse Genito-Urinary Clinic.

INSPECTORS

WILLIAM H. CONNORS, General Inspector

STEPHEN GARRITY, Plumbing Inspector—Died May 14, 1920

WILLIAM F. RYAN, Plumbing Inspector

CHARLES N. MIDWOOD, Plumbing Inspector

CLEMENT A. HAMBLET, M. D. V., Inspector of Meats and Provisions

JOHN KEARNEY, Health Inspector

MILK DEPARTMENT

MELVIN F. MASTER, B. C., Milk Inspector JOHN J. COUGHLIN, Collector of Samples

PRIVATE SCHOOL PHYSICIANS

HOWARD W. JEWETT, M. D. RODRIGUE MIGNAULT, M. D. FREDERICK P. MURPHY, M. D. RALPH C. STEWART, M. D.

Lowell, Mass., Jan. 1, 1921.

To the Honorable Mayor and Members of the Municipal Council of the City of Lowell, Massachusetts.

GENTLEMEN :-

The Board of Health respectfully submits the forty-third annual report for the year ending Dec. 31, 1920.

The total deaths from all causes in Lowell during the year was 1770 and this includes persons visiting our city temporarily, and is exclusive of still births.

The Federal census of 1920 gave Lowell a population of 112,759, and by this increase the death rate per 1000 population was 15.69 which is the lowest death rate since 1850.

With the opening of the Tuberculosis Hospital, the Board decided it would be the policy of economy and efficiency to abandon the "Cottage Hospital" in Chelmsford Street, which was in use for the care of other contagious diseases, and set aside one of the pavilions at the Tuberculosis Hospital as a contagious ward. As it later proved, this was a very fortunate move in the right direction, as the department was called upon during the latter months of the year to provide for the care and treatment of some thirty or more cases of contagious diseases that occurred in one of the local orphanages.

But this temporary arrangement for the care of such cases cannot continue, as the demands of the department for the admission of tubercular cases will be so great that the contagious ward will have to be abandoned.

Therefore, the members of the Board respectfully call the attention of the Mayor and the members of the

Municipal Council to the situation that confronts our city in the near future in not having adequate facilities for the care of cases of contagion other than tuberculosis, and the great necessity of making tentative plans for a new building.

There were two changes in the office personnel of the department during the year. In the passing of Stephen Garrity, inspector of plumbing for the past thirty years, the city lost a much esteemed public official. He was a man of splendid loyalty to his friends, of sterling citizenship, simple tastes and a kindly disposition. Charles N. Midwood was appointed to fill his position.

Miss Anna C. O'Dwyer, who served the department so efficiently as a child-welfare nurse, resigned to accept a position as school nurse.

The members of the Board wish to express their appreciation to the Mayor and the members of the Municipal Council as well as the heads of the various departments, for the advice and co-operation given the department during the year. It is also the wish of the Board to say that they are very much gratified with the co-operation given by the Anti-Tuberculosis Association, the Lowell Guild, the Red Cross Chapter, school nurses, police women, social workers and all other agencies interested in public health work.

PIERRE BRUNELLE, M. D., Chairman, THOMAS F. CARROLL, M. D., JOHN E. DRURY,

Board of Health.

REPORT OF WORK DONE BY BACTERIOLOGICAL LABORATORY DURING YEAR 1920

Lowell, Mass., Jan. 1, 1921

Board of Health,

Lowell, Mass.

GENTLEMEN:

I have the honor to submit a report of the work done by me in the Bacteriological Laboratory during the year 1920:

DIPHTHERIA

Examination of Cultures

	For Di	agnosis	For R	elease	No	Whole
	Positive	Negative	Positive	Negative	Result	Number
January	40	229	15	31	2	317
February	13	103	3	35	0	154
March	15	74	5	15	1	110
April	11	63	3	17	0	94
May	9	74	2	10	3	98
June	9	51	3	8	6	77
July	5	25	0	5	0	35
August	10	40	2	18	1	71
September	7	32	1	10	5	55
October	24	69	1	11	3	108
November	40	-156	11	44	6	257
December	46	141	13	66	1	267
			_			
	229	1057	59	270	28	1643

TUBERCULOSIS

Examinations of Specimens of Sputum

	Positive	Negative	Tota
January	11	21	32
February	2	23	25
March	3	44	47
April	13	29	42
May	0	40	40
June	11	39	50
July	0	40	40
August	0	39	39
September	3	20	23
October	2	43	45
November	11	44	55
December	28	28	56
	_		
	84	410	494

TYPHOID FEVER

Examination of Blood for Widal Reaction

Positive	Negative	Atypical	No Result	Total
1	5	1	0	7
0	5	0	0	5
1	3	0	0	4
2	1	0	0	3
0	3	0	0	3
3	15	0	1	19
5	10	1	0	16
2^{-}	11 :	0	0	13
7	6	0	1	14
2	9	0	0	11
0	14	0	0	14
2	4		_	6
_	_	_	_	
25	86	2	2	115
	1 0 1 2 0 3 5 2 7 2 0 2	1 5 0 5 1 3 2 1 0 3 3 15 5 10 2 11 7 6 2 9 0 14 2 4 — —	1 5 1 0 5 0 1 3 0 2 1 0 0 3 0 3 15 0 5 10 1 2 11 0 7 6 0 2 9 0 0 14 0 2 4 - - - -	1 5 1 0 0 5 0 0 1 3 0 0 2 1 0 0 0 3 0 0 3 15 0 1 5 10 1 0 2 11 0 0 7 6 0 1 2 9 0 0 0 14 0 0 2 4

CEREBRO-SPINAL MENINGITIS

There were 10 examinations made, five of which were positive and five negative.

MALARIA

There was one examination made, which proved to be negative.

OPHTHALMIA NEONATORUM

There were 13 examinations made, five of which were positive, and eight negative.

GONORRHŒA

Eighty-five examinations were made, 21 of which were positive and 64 negative.

One test was made for Vincent's Angina, which was negative.

General examinations were made in three cases of various materials, pus, blood and exudates.

Respectfully submitted,

JAMES Y. RODGER, M. D.,

Bacteriologist.

REPORT OF INSPECTOR OF MILK

To the Lowell Board of Health.

GENTLEMEN:-

I have the honor to present the report of the Department of Milk, Vinegar and Oleomargarine for the twelve months beginning Jan. 1, 1920.

There were six hundred and thirty-seven stores licensed to sell milk after an inspection had been made. Fifty dealers were issued wagon licenses after their milk plants had been inspected and scored (U. S. Dept. of Agri., Bureau of Animal Industry. Dairy Div. score card was used) while eleven dealers were refused licenses after a score and an inspection was made. Sixty stores were issued Oleomargarine licenses. Three hundred and seventy-three dollars and fifty cents received from licenses, were paid over to the City Treasurer during the year.

Three thousand three hundred and fifty-eight samples of milk; twenty-nine samples of vinegar; nine samples of butter; thirty-six samples of ice cream have been analyzed. One thousand five hundred and seventeen samples of milk were tested for sediment by means of a Wisconsin Milk Sediment Tester and sediment cottons. Bacterial examinations were made on three hundred and eighty-seven samples of milk. Several articles of fruit or food were examined for the Health Department, as well as drugs and numerous samples of liquid submitted by the Police Department.

Samples of milk were seized from eight hundred and twenty-two wagons; one hundred and one stores and seventy-two restaurants of lunch rooms. Eight hundred and sixty-seven visits to stores or restaurants were made. Fifty-six dairy farms were visited. Two hundred and

nine inspections of milk plants were made. Seventeen train inspections were made. One thousand and fifty-six letters containing blank milk license applications were mailed during the month of February. Three hundred and twenty-six letters of warning were sent during the year for minor violations of the Milk Laws. Six prosecutions resulted in convictions, the fines ranging from \$10 to \$50. Eleven questionaires on milk were received and answered. Graphical records of the percentages of solids and fats of the samples seized were made. One graphical record shows all percentages of solids and fats of samples seized; another shows the average percentage daily; others show all percentages of solids and fats of samples seized from each milk dealer.

This department investigates all complaints received from the public relative to violation of the milk and some of the food laws, and if the complainant has the necessary evidence, makes such prosecutions as may be necessary. Valuable complaints are sometimes received from the public. If this department does not have the authority to enforce the law the complainant is told what department has. The services of the department are open to the public of Lowell for such analyses as may be of purely public benefit, but the person submitting samples for examination must expect to be closely questioned relative to the samples submitted, and the reason why an analysis is desirable or necessary. carrying out of such analyses is very expensive and persons intrusted with the spending of public funds must be careful that such funds shall not be wasted. submitted for examinations should as far as possible be in the original container and unopened. To carry on the work of this department there is a force of one chemist (Milk Inspector) and a Collector of Samples.

During the year of 1920 the milk delivered in Lowell came from four States of New England, Maine, New

Hampshire, Vermont and Massachusetts. In these four States it came from twenty-four cities and towns.

From Maine there was shipped to Lowell daily 3400 quarts of milk, 1500 quarts of cream, 1275 quarts of buttermilk, and 1700 quarts of skimmed milk. This milk came from a milk depot located at Auburn, and was part of the milk collected from several hundred dairies located in Maine.

From New Hampshire there was shipped to Lowell daily 5976 quarts of milk, 300 quarts of cream, and 40 quarts of skimmed milk. Pelham supplies 3468 quarts from 35 dairies; Hudson supplied 986 quarts from 19 dairies; South Nashua supplied 332 quarts from 6 dairies; Orford supplied 1105 quarts from a milk depot representing numerous dairies in that locality; Milford supplied 85 quarts of milk, 300 quarts of cream, and 40 quarts of skimmed milk from a milk depot representing numerous dairies in that locality. The milk from the two milk depots at Orford and Milton usually comes to Lowell by train, while the milk from the 60 dairies located in Pelham, Hudson and South Nashua comes by truck or wagon.

From Vermont there was shipped to Lowell daily 707 quarts of milk, 900 quarts of cream, and 75 quarts of buttermilk. A milk depot representing numerous dairies at Fairlee supplied 680 quarts of milk, a milk depot at St. Johnsbury, representing numerous dairies, supplied 17 quarts of milk, and 600 quarts of cream; a milk depot at Orleans, representing numerous dairies, supplied 10 quarts of milk and 75 quarts of buttermilk; a milk depot at Morrisville, representing numerous dairies, supplied 300 quarts of cream. All the milk from Vermont comes to Lowell by train.

From Massachusetts there was shipped to Lowell daily 26290 quarts of milk and 34 quarts of cream, supplied by 347 dairies. Dracut supplied 7191 quarts of

milk from 78 dairies: Chelmsford supplied 5334 quarts from 92 dairies: Tewksbury supplied 2236 quarts from 17 dairies: Westford supplied 2823 quarts from 37 dairies: Dunstable supplied 1794 quarts from 33 dairies: Tyngsboro supplied 1674 quarts from 26 dairies: Billerica supplied 1369 quarts from 17 dairies; West Andover supplied 1114 quarts from 10 dairies; Lowell supplied 1097 quarts from 11 dairies: Carlisle supplied 910 quarts from 15 dairies: North Sudbury supplied 544 quarts from 7 dairies: Pepperell supplied 102 quarts from 2 dairies: North Acton supplied 85 quarts from one dairy; and Concord supplied 17 quarts from one dairy. The milk shipped from Concord, North Acton, North Sudbury, and part of the milk from Carlisle is delivered to Lowell by The remainder of the milk shipped to Lowell train. from Massachusetts comes by wagon or truck.

It is estimated that about 1000 quarts of milk is produced and consumed in Lowell daily, of which this department knows nothing, and about 200 quarts are received from adjacent towns, of which there is no record.

As a summary it may be said that the milk consumed in Lowell in 1920 came from four States, from twenty-four cities and towns, from seven milk depots and 497 dairy farms, supplying 37573 quarts of milk, 2734 quarts of cream, 1740 quarts of skimmed milk, and 1350 quarts of buttermilk daily.

PASTEURIZED MILK

There were 79 licensed milk dealers in the city of Lowell in 1920, and of this number 10 milk dealers were delivering a pasteurized product to their wholesale and retail trade. Of the 37,573 quarts of milk delivered daily, 11,500 quarts were sold at wholesale and 26,073 quarts at retail. Of the wholesale milk, 7276 quarts were sold raw, and 4224 quarts were sold as pasteurized

milk. Of the retail milk, 17,446 quarts were sold raw, and 8627 quarts were sold as pasteurized milk. Wholesale and retail there were sold 24,722 quarts of raw milk and 12,851 quarts of pasteurized milk daily. Three local milk plants installed pasteurizing apparatus during the year.

Of the milk that is sold as pasteurized in Lowell, daily, we get from Vermont 102 quarts of milk, 40 quarts of skimmed milk, and 900 quarts of cream; Maine 3400 quarts of milk, 1700 quarts of skimmed milk, and 1500 quarts of cream; New Hampshire 300 quarts of cream. This milk is pasteurized at milk depots, shipped to Lowell and bottled at local plants. There are received from Vermont and New Hampshire by train 2337 quarts of raw milk daily, which is pasteurized in local plants. There are received by wagon and truck in Lowell daily 7012 quarts of milk that are pasteurized in local plants. There are at present seven local plants that pasteurize their milk, and three that receive their milk pasteurized.

Chapter 259 of the General Acts of 1917 defines pasteurized milk for Massachusetts as follows:—

"An Act Defining Pasteurized Milk and Regulating the Sale Thereof. Be it enacted, etc., as follows:

Section 1. Pasteurized milk is hereby defined to be natural cow's milk not more than seventy-two hours old when pasteurized, subjected for a period of not less than thirty minutes, to a temperature not less than one hundred and forty-five degrees, nor more than one hundred and forty-five degrees Fahrenheit, and immediately thereafter cooled therefrom to a temperature of fifty degrees, Fahrenheit or lower.

Section 2. It shall be unlawful to sell, exchange or deliver, or to advertise, represent, or describe, or to offer or expose for sale or to have in possession with intent to sell as pasteurized milk, milk not pasteurized in conformity with the provisions of this act.

Section 3. Any violation of this act shall be punished by a fine of not less than ten dollars for a first offence, and of not more than one hundred dollars for any subsequent offence.

Section 4. This act shall take effect on the first day of January in the year nineteen hundred and eighteen. (Approved May 16, 1917.)

Since 34.2% of the milk sold in Lowell in 1920 was sold as pasteurized milk, the Milk Inspector would suggest that the Board of Health pass regulations providing for the protection of the public health by defining and regulating pasteurization of Milk and Cream for the City of Lowell. Among some of the regulations that might be considered for pasteurizing plants are:

All washed bottles must be stored in an inverted position until filled, and must be so protected as to prevent contamination.

Surface coolers must be provided with suitable metal covers, unless located in a room used for no other purposes.

Caps of bottles must be stored and kept in such a manner as to be protected from contamination until used.

Clean, washable, outer garments shall be provided and worn by employees while handling milk.

No milk or cream shall be pasteurized a second time.

Milk bottle caps shall be purchased in sterile tubes and the capping of bottles shall be done by machine.

Every pasteurized apparatus must be equipped with an automatic temperature recording device which will indicate the temperature to which the milk or cream has been heated, the temperature at which said heating has been performed, and if possible, the length of time for which the milk or cream is held at required temperature; where a continuous holder is used, the temperature recording thermometer must be attached to the highest point of the outlet pipe. The temperature records must be made daily and delivered to the Milk Inspector on every Monday for the preceding week's work.

No person shall be employed in any pasteurization plant without first producing to the employer a certificate of good health, signed by a reputable physician.

The Monthly Averages for Total Solids and Butterfats were as follows:

	Total Solids	Fat
January	A. ORRIGAN	3.76%
February		3.83
March	12.33	3.64
April	12.30	3.64
May "	12.34	3.69
June	12.24	3.56
July	12.18	3.64
August	12.07	3.58
September	12.30	3.60
	12.45	3.76
November	12.62	3.77
December	12.68	3.80
The legal Standard for Massachusetts is	12.00%	3.35%

During the fiscal year ending Dec. 31, 1920, the department spent for milk inspection work \$3722.99. If the population of Lowell is 112,759, the per capita cost for milk inspection for the year was three and three-tenths cents. A conservative compilation made in 1920 shows that the per capita consumption of fluid milk in Lowell daily is 10.66 fluid ounces. Due to the lack of necessary data it was impossible to deduct the amount of milk used in the manufacture of food products.

In spite of unsettled conditions, especially the scarcity of farm labor, many improvements have been made upon the methods used at dairies during the past year. The results are very evident in the bacterial, sedi-

ment and chemical examinations of our milk supply. Each year presents new problems in the selection of dairies, due to the increasing scarcity of milk. Officials who exercise supervision over milk production and handling are obliged to combine firmness and tact in securing sanitary correction, and at the same time encourage an increase in dairy production. The milk distributing plants supplying Lowell with milk are in far better condition in constructing equipment, and methods, than they ever were before. To be sure there are some milk plants still that need improvements, but it is expected that May 1st, 1921, will find them complying with all the rules and regulations of the Board of Health, or they will be denied a license to sell milk in Lowell One of the hardest problems that this department has to solve is how to handle the man who produces less than twenty quarts of milk per day, and desires to retail it in the city.

With a decrease in available dairy herds, it has been, and will continue to be, necessary to go farther for our milk supply. This will require longer and more frequent absences from the city in selecting and supervising contributing dairies. It has been found necessary to increase our market milk supply from large dairy districts of New Hampshire and Northern Vermont. This supply compares very favorably chemically and commercially with the milk supplied locally, but the proper supervision over its production is becoming a rather serious prob-In order to keep our supply up to the standard, some additional assistance must be furnished this department at an early date. The work of this department has increased four-fold in the past twelve years, but the number of workers has remained the same for twenty-two vears or more. The amount of money appropriated for conducting the affairs of the department, exclusive of salaries, is practically the same as twelve years ago. There is an urgent need of a room being provided where

milk bacterial work can be carried on, the chemical laboratory being unsuitable for that purpose.

I must at this time make cognizance of the wonderful help, co-operation and inspiration of Mr. Francis O'Hare, Agent of the Board of Health, and the kindly, co-operative, instructive and judicious advice received from Dr. Brunelle, Dr. Carroll and Hon. J. E. Drury, members of the Board of Health.

Respectfully submitted,

MELVIN F. MASTER, B. S., Inspector of Milk and Vinegar.

REPORT OF THE ATTENDING PHYSICIAN GENITO-URINARY CLINIC

LOWELL, MASS., JAN. 1, 1921.

Boarā of Health, Lowell, Mass.

GENTLEMEN:--

The Genito-Urinary Clinic of the Health Department had sixty-one cases under observation and treatment Dec. 31, 1919, and from that date to Dec. 31, 1920. admitted three hundred and sixty-six cases and discharged two hundred and thirty-one classified as follows:—

TABLE OF ADMISSIONS AND DISCHARGES

		_						
	Sex	Syphilis	Gonorrhæa	Chancroid	Condylomata Accuminata	Pediculosis Pubis	No Venereal Disoase	Total Number of Diseases
Cases transferred from 1919	Male Female	18 17	18 7	0	0		$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$	37 24
	Total	35	25	0	0	0	1	61
Cases admitted during 1920	Male Female		111 53 —	$egin{pmatrix} 4 \ 1 \ \ \end{bmatrix}$	3	$\begin{array}{c} 1\\3\\\end{array}$	33 22	238 128
	Total	133	164	5	5	4	55	366
Cases treated during 1920	Male Female		129 60	$\begin{array}{ c c c c }\hline 4 \\ 1 \\ \end{array}$	2)	$\begin{vmatrix} 1\\3 \end{vmatrix}$	34 22	275 152
	Total	168	189	5	5	4	56	427
Cases discharged during 1920 with permission as cured.	Male Female	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	11 3	1 1	2 2	1 3	28 27	44 38
	 Total	3	14	2	4	4	55	82
As probably cured	Male Female	$\begin{vmatrix} 2\\2 \end{vmatrix}$	23	0 0	0	0	0	25 5
	Total	4	26	0		0	0	30
As non-infectious but not cured	Male Female	2	$egin{array}{c} 4 \ 1 \ \end{array}$	0	0	0	0 0	6 4
	Total	5	5	0	0	0	0	10
To private physicians and hospitals	 Male Female		23 15	0	0	0	0	38 26
337'11	Total	26		0	0	0	0	$\frac{64}{24}$
Without permission	Male Female	15 8 	19 3	0	0 0	0	0 0 —	34 11
	Total	23	22	0	0	0	0	45
Total diseases discharged 1920	Male Female	35 26	80 25	1 1	2 2	$\begin{array}{c} 1 \\ 3 \end{array}$	28 27 ——	147 84
	Total	61	105	2	4	4	55	231
Cases under treatment Dec. 31,		107	84	3	1	. 0	1	196

Cases of double infection: Male, 11; Female, 10; Total, 21.

The following were classified as the source of admission of the cases where such information could be obtained:—.

Sex	1919 Transfers	Private Physicians, Nurses, Social Workers	Hospitals	City Charity Dispensary	Court and Policewomen	Other Patients	Placards	Unknown Sources	Totals
Male Female	37 24	37 23	20 14	12 17	$\begin{vmatrix} 2\\13 \end{vmatrix}$	27 110	43	97 45	$\begin{array}{c} 275 \\ 152 \end{array}$
Total	61	60	34	29	15	137	49	142	427

Laboratory Examinations were made as follows:—

Syphilis: Dark Field Examinations for Treponema Pallida	Grand Total
Dark Field Examinations for Treponema Pal-	
$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
Total 0 7 1 8	3
(Dark Field not available until Nov., 1920) Wasserman Blood Tests for diagnosis and treatment control Male 90 180 24 294 Female 46 115 25 186	
Total 136 295 49 480)
Spinal fluid examinations 121 Total syphilitic examinations 609	
Gonorrhœa: Gonococcic fixation tests Image: Control of the control of	
Gonococcic smear examinations	
Total gonococcic examina- tions	9
Total laboratory proced- ures	1708

Treatments administered were classified under the following heads:—

e e e e e e e e e e e e e e e e e e e	
No Venereal Disease:	
Examinations 56	j
Syphilis:	
Arsphenamine	,
Mercury 813	,
Lumbar Puncture 121	_
Gonorrhœa:	
Male:	
Injections and irrigations 907	7
Sounds passed	Ŀ
Prostatic message	í
Meototomy 7	7
Female:	
Vaginal treatments 460)
Excision Bartholinian gland	Ŀ
Condylomata accuminata, removal of	5
Total Treatments).
Total therapeutic procedures (treatment plus laboratory ex-	-
examinations) 5137	7
Money collected from patients\$704.20)
Patients remaining under treatment and observation Dec	
31st, 1920	ĵ

SUMMARY:

Sixty-one cases were transferred from 1919, and three hundred and sixty-six new cases admitted, making a total of four hundred and twenty-seven cases under treatment during 1920. Two hundred and thirty-one patients were discharged during 1920, leaving one hundred and ninety-six cases under treatment at the end of the year. This shows an increase in the Clinic of over 300%; this increase has been handled without additional personnel and with the removal of a much-needed clerk by the Civil Service Commissioners.

Sources of admission show the greatest number sent in by the Physicians of Lowell with the response to the placards in public places being classed second. Hospitals, City Charity Dispensary and other patients referred about the same proportion of cases.

One hundred and twelve cases were discharged as cured or probably cured, ten as non-infectious but not cured, and sixty-four to private physicians (usually those referring patient to clinic) and institutions. Forty-five patients left the Clinic without permission in an infectious condition.

The Clinic is greatly handicapped by lack of room and limited personnel, and the lack of a Social Service follow-up department. Forty-five cases left the Clinic as potential sources of infection to probably many times the number of innocent persons. Many of the families of patients under treatment contain infectious members not under treatment, retarding the cure of the Clinic patient and infecting others, which we are unable to reach through lack of a Social Worker.

Respectfully submitted,

HAROLD L. LELAND, M. D., Attending Physician Genito-Urinary Clinic.

REPORT OF EXAMINING PHYSICIAN FOR THE TUBERCULOSIS CLINIC

LOWELL, MASS., JAN. 1, 1921.

To the Members of the Board of Health, Lowell, Mass.

I have the honor to submit a report of the work done by me as Examining Physician from Jan. 1, to Dec. 31, 1920:—

Number of cases examined 5	28
New cases 2	36
Old cases	92
Incipient cases	34
Moderately advanced cases	45
Advanced cases	50
Exposed cases	92
Arrested cases	
Other forms	
Non-tubercular cases	
Number of cases that have moved out of town	28

Yours respectfully,

JOHN N. DRURY, M. D.

Examining Physician.

REPORT OF TUBERCULOSIS NURSE

LOWELL, MASS., JAN. 1, 1921

Board of Health, Lowell, Mass.

GENTLEMEN:--

Following is the work done by me from Jan. 1, 1920, to Dec. 31, 1920, as Tuberculosis Nurse for the Health Department:—

Number of cases examined	528
New cases	236
Old cases	292
Incipient cases	34
Moderately advanced cases	45
Advanced cases	50
Exposed cases	92
Arrested cases	7
Other forms	8
Non-tubercular cases	332
Number of cases that have moved out of town	28
Number of private doctors' cases under supervision	85
Number of cases at the following Sanatoria:	
Boston Consumptives' Hospital	1
Cambridge Tuberculosis Hospital	1
Chelmsford Street Hospital	6
Lowell Isolation Hospital	31
Lawrence Tuberculosis Hospital	15
Lakeville State Sanatorium	14
North Reading State Sanatorium	· 19
Rutland State Sanatorium	14
Tewksbury State Infirmary	26
Westfield State Sanatorium	12
United States Public Health Hospitals:	
Groton	8
Glen Rock	1
Camp Meade	1
New Haven	3
Oxford Springs	3
Parker Hill	1

BOARD OF HEALTH.	27
Number of deaths in 1920 from Tuberculosis	111
Number of deaths from Pulmonary Tuberculosis	77
Number of deaths from other forms of Tuberculosis	34
Number of deaths (under supervision)	83
Number of deaths (not under supervision)	28
Number of visits made during the year	2486
I also assisted at the Genito-Urinary Clinic twi	ce a
wools	

Respectfully submitted,

BERTHA M. KIRWIN, R. N., Tuberculosis Nurse.

REPORT OF CHILD WELFARE NURSE

Lowell, Mass., Jan. 1, 1921.

Board of Health, Lowell, Mass.

GENTLEMEN: --

Following is a report of the visits made by me from Jan. 1, 1920, to Dec. 31, 1920:—

Number of postnatal visits	1022
Number of postnatal revisits	1125
Total number of postnatal visits	2147
	18
Number of revisits	103
Number of Weak Eyes	25
Deaths—Premature birth	
Under 1 week	
Over 1 week 97	138
Trachoma cases	1
Vaginitis cases	1
Contagious Disease cases	2
Tuberculosis cases	3
Referred to Police Women	1
Referred to Lowell Guild	71

I also assisted at the Tuberculosis Clinic and the Genito-Urinary Clinic.

Respectfully submitted,

LOIS A. TITCOMB, R. N., Child Welfare Nurse.

REPORT OF CHILD WELFARE NURSE

LOWELL, MASS., JAN. 1, 1921.

Board of Health, Lowell, Mass.

GENTLEMEN:-

Following is a report of the visits made by me from Jan. 1, 1920, to Dec. 31, 1920:—

Number of postnatal visits	674
Number of postnatal revisits	1230
	1904
Total number of postnatal visits	
Number of new Ophthalmia Neonatorum cases	15
Number of revisits Ophthalmia Neonatorum cases	126
<u> </u>	
m	
Total	141
Weak Eyes	8
Revisits	6
Deaths	66
Still births	9
Trachoma cases	3
Contagious diseases	13
Conjunctivitis cases	1
Revisits	10
Cases referred to G. U. Clinic	2
Cases referred to Tuberculosis Clinic	1
Cases referred to Lowell Guild	6

I also assisted at the Genito-Urinary Clinic one evening each week alternately.

Respectfully submitted,

HELEN V. TOMPKINS, R. N., Child Welfare Nurse. Notices to abate the following nuisances were sent from this office during the year 1920:—

Clogged sink waste pipes	4
Clogged drains	- 19
Clogged water closets	6
Clogged catch basins	5
Leaky sink waste pipes	17
Leaky water supply pipes	9
Leaky water closet tanks	4
Leaky water closets	11
Leaky roofs	3
Untrapped sinks	3
Untrapped refrigerators	2
Untrapped bar drainers	1
Open back vent pipe connections	2
Hens removed	6
Pigs removed	38
Pigeons removed	1
Rubbish in yards	124
Rubbish in cellars	25
No water supply to tenements	9
No water supply to water closets	24
No water supply to sinks	3
Ceilings whitewashed	6
Plaster off ceilings	13
Dilapidated woodwork around toilets	4
Dilapidated woodwork around sinks	2
Open drains	17
Insufficient water supply to water closets	7
Filthy water closet compartments	1
Contents of dry wells overflowing	4
Filth stables	1
No cover on sink traps	2
No cover on house traps	1
Defective joints in sink waste pipes	5
Frozen water supply pipes	1
Defective chimney flue	1
Water in cellar	2
Manure in yard	3
Decayed meat and vegetables	1
Broken and leaky water closet bowls	8

Dilapidated water closets	8
Vaults cleaned	2
Dirty tenements	1
Permission granted to remove contents of privy vaults	6
Permission granted to remove contents of dry wells	$\cdot 2$

There were 2539 vaccinations during the year.

REPORT OF PLUMBING INSPECTORS

LOWELL, MASS., JAN. 1, 1921.

Board of Health, Lowell, Mass.

GENTLEMEN:-

The following is a report of the plumbing work done for the year ending Dec. 31, 1920:—

Whole number of applications for permits to do plumbi	ing	1,022
New houses	158	
Old Houses	864	
		1,022
Total visits	. .	5,365
Inspections	3,832	•
Tests	1,533	
		5 365

One prosecution for doing plumbing without permit.

Respectfully submitted,

CHARLES N. MIDWOOD,
WILLIAM I. RYAN,
Plumbing Inspectors.

REPORT OF FUMIGATOR

LOWELL, MASS., JAN. 1, 1921.

Board of Health, Lowell, Mass.

GENTLEMEN:-

Following is a report of the fumigating work done by me during the year 1920:—

Houses	572
Rooms	
Tuberculosis cases	
Infantile paralysis cases	
Cerebro-spinal meningitis cases	
Cancer cases	
Smallpox case	
Leprosy case	_

Respectfully submitted,

SPENCER D. BROWN,

Fumigator.

REPORT OF INSPECTOR OF MEATS AND PROVISIONS

Lowell, Mass., Jan. 1, 1921.

Board of Health, Lowell, Mass.

GENTLEMEN:--

Respectfully submitted,

C. A. HAMBLET,

M. D. V.

CASES OF CONTAGIOUS DISEASES REPORTED

Diphtheria	$\frac{1920}{254}$	1919 234	1918 186	1917 438
Scarlet Fever		327	99	. 77
Measles	1,376	168	501	360
Typhoid Fever	27	31	21	37
Smallpox	1	1	2	1
Cerebro-spinal Meningitis	11	8	19	17
Infantile Paralysis	14	8	7	9
Tuberculosis	268	288	256	244
Influenza	1,236	1,004	7,394	0

DEATHS FROM CONTAGIOUS DISEASES

	1920	1919	1918	1917
Diphtheria	20	23	17	24
Scarlet Fever	1	6	4	3
Measles	26	4	8	4
Typhoid Fever	3	4	2	7
Smallpox	0	0	0	0
Cerebrc-spinal Meningitis	6	6	9	10
Infantile Paraylsis	5	3	5	2
Tuberculosis	111	143	182	177
Influenza	21	27 ,	164	3

CASES OF DIPHTHERIA REPORTED TO THE BOARD OF HEALTH, 1920

	Cases Reported	Deaths
January	. 50	7
February	. 14	2
March	. 20	0
April	. 9	1
May	. 9	2
June		1
July	. 1	0
August	. 9	1
Sept	. 9	2
October		3
November	. 39	0
December	. 51	1
	254	20

Mortality of diphtheria, 7.9 per cent.

MORTALITY OF DIPHTHERIA

1894		33.0 p	er cent.
1895		44.0	
1896		43.0	
1897		23.0	
1898		23.0	
1899		18.0	
1900		10.0	1
1901		12.0	
1902		9.5	
1903		10.5	
1904		11.0	
1905		6.0	Ī
1906		9.0	
1907		7.5	ì
1908		7.0	
1909		12.5	
1910		9.2	
1911		9.7	
1912		10.4	
1913		9.9	
1914		16.3	
1915		10.6	
1916		13.3	
1917		5.5	I
1918		9.1	!
1919		9.8	!
1920		7.9	ľ
	1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919	1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

SCARLET FEVER

	1920	1919	1918
Cases reported	221	327	99
Deaths reported	1	6	4
Per cent. total cases	0.4	1.8	4.0

Cases Reported	Deaths
January 60	0
February 20	1
March 10	0
April 12	0
May 19	0
June 13	0
July 5	0
August 8	0
September 6	0
October	0
November	0
December	0
221	1

MEASLES

Cas	es Reported	Deaths
January	6	0
February	9	0
March	4	0
April	7	0
May	55	1
June	168	2
July	149	1
August	71	3
September	45	2
October	173	5
November	331	3
December	358	9
		_
	1,376	26

INFANTILE PARALYSIS

Cas	es Reported	Deaths
January	0	0
February		1
March	_	0
April	0	0
May	0	0
June	1	0
July	0	0
August	1	0
September	3	0
October	7	4
November	0	0
December	1	0
	14	5

CEREBRO-SPINAL MENINGITIS

Case	s Reported	Deaths
January	4	3
February	0	0
March	3	1
April	0	0
May	0	0
June	0	0
July	2	0
August	0	1
September	1	1
October	0	0
November	1	0
December	0	0
		_
	11	6

TUBERCULOSIS

Cases	Reported -	Deaths
January	25	4
February	11	17
March	17	14
April	18	13
May	21	9
June	28	8
July	19	11
August	27	7
September	17	3
October	32	7
November	26	6
December	27	12
_	_	
	268	111

TYPHOID FEVER

Case	es Reported	Deaths
January	1	0
February	2	0
March	1	0
April	-1	0
May	0	0
June	4	0
July	. 6	2
August	1	1
September	5	0
October	4	0
November	1	0
December	1	0
	27	3

TYPHOID FEVER.

		Cases	
	Population	Reported	Deaths
T otal 1920	112,759	27	3
Total 1919	107,978	31	4
Total 1918	107,978	21	2
Total 1917	107,978	37	7
Total 1916	107,978	61	13
Total 1915	106,294	112	18
Total 1914	$106,\!294$	85	11
Total 1913	106,294	65	11
Total 1912	$106,\!294$	86	10
Total 1911	106,294	61	7
Total 1910	106,294	186	22
Total 1909	96,380	91	11
Total 1908	96,380	188	24
Total 1907	96,380	73	9
Total 1906	96,380	30	7
Total 1905	94,889	56	17
Total 1904	$104,\!402$	48	17
Total 1903 :	101,959	238	26
Total 1902	99,574	83	16
Total 1901	94,969	70	18
Total 1900	94,969	85	17
Total 1899	90,114	57	17
Total 1898	87,000	119	24
Total 1897	87,000	105	18
Total 1896	95,700	178	36
Total 1895	84,359	172	33
Total 1894	83,026	282	50
Total 1893	81,694	160	53
Total 1892	80,361	373	75
Total 1891	79,029	293	77
Total 1890	77,696	454	123

A decrease from 1.59 per thousand inhabitants to .02 in thirty-one years.

VITAL STATISTICS

Deaths, male	1920 893 877	1919 828 881	1918 $1,272$ $1,201$
-			
	1,770	1,709	2,473
Children under 1 year	426	377	525
Children under 2 years	531	435	684
Children under 5 years	587	515	797
Per cent. of total deaths under 5 years	33.2	30.0	32.0

BIRTHPLACES

	Of Deceased	Of Parents
Lowell	. 815	326
Massachusetts	. 125	210
Other States	. 255	511
Ireland	. 187	702
Canada	. 201	696
Great Britain	. 85	234
Other Countries	. 94	670
Unknown	. 8	191
•		
	1,770	3,540

PLACES OF INTERMENT

St. Patrick's Cemetery	706
Edson	266
Westlawn	150
Lowell	64
St. Joseph's	398
St. Peter's	2
Other Cemeteries	9
Removed from City	175

1,770

PLACES OF DEATH

Ward 1	116
Ward 2	193
Ward 3	167
Ward 4	111
Ward 5	106
Ward 6	283
Ward 7	148
Ward 8	155
Ward 9	109
Chelmsford Street Hospital	90
Lowell Hospital	84
Lowell General Hospital	101
St. John's Hospital	87
Shaw Hospital	2
Cottage Hospital	4
Tuberculosis Hospital	2
Cheney-Allard Hospital	5
Mrs. Garrett's Hospital	7

1,770

DEATH RATE

Population,	census	1890	77,696	1,959	25.21
	estimated	1891	79,029	1,972	24.95
	estimated	1892	80,361	2,224	27.67
	estimated	1893	81,694	2,094	25.62
	estimated	1894	83,026	1,775	21.28
	census	1895	84,359	1,857	22.01
	estimated	1896	85,700	1,901	22.18
	estimated	1897	87,000	1,855	21.33
	estimated	1898	87,000	1,808	20.78
	estimated	1899	90,114	1,848	20.50
	census	1900	94,969	1,84 9	19.47
	estimated	1901	94,969	2,038	21.45
	estimated	1902	99,574	1,935	19.43
	estimated	1903	101,959	1,898	18.61
	estimated	1904	104,402	1,736	16.61
	census :	1905	94,889	1,899	20.02
	census	1906	96,380	1,918	19.90
	census	1907	96,380	2,063	21.40
	census	1908	96,380	1,963	20.36
	census	1909	96,380	1,885	19.55
	census	1910	$106,\!294$	2,100	19.76
	census	1911	106,294	1,925	18.11
	census	1912	106,294	1,891	17.79
	census	1913	106,294	1,749	16.45
	census	1914	106,294	1,768	16.63
	census	1915	$106,\!294$	1,820	17.12
	census	1916	107,978	1,964	18.19
	census	1917	107,978	1,938	17.95
	census	1918	107,978	2,473	22.90
	census	1919	107,978	1,709	15.82
	census	1920	112,759	1,770	15.69

Sex: Males, 893; Females, 877. Population estimated at 112,759. Death rate per 1,000, 15.69. MORTALITY REPORT FOR THE CITY OF LOWELL FOR THE YEAR 1920 Deaths during the year 1920, 1,770 (exclusive of Still Births, 120.

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		General Diseases—Continued	28.	29.	30.		32.	. 33.	34.	35.	36.	37.	38.	39.	40.
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	65 years and under 70 years						<u>9</u>	<u> </u>	_ :		_:	
	60 years and under 65 years		_:		:			<u>:</u>	<u>:</u>	:	:	-
	55 years and under 60 years							<u> </u>	:	:	<u>:</u>	
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	45 years and under 50 years				G1	:		<u> </u>	<u>:</u>	:	_:	<u>:</u>
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1	2 years and under 3 years		<u> </u>	<u> </u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>i</u>		<u>:</u>	_:	<u>:</u>
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	ог реатн	Diseases—Continued	d other malignant of the peritoneum, as and rectum	Cancer and other malignant tumors of the genital or- gans of the female	Cancer and other malignant tumors of the breast	uncer and other malignant tumors of the skin	d other malignan of organs not	nors (tumors of ale genital organs)	Rheumatism, acute, articular	m, chronic and		
	CAUSES	General Disease	Cancer and tumors of intestines	Cancer amtumors of gans of	Cancer and tumors of	Cancer and tumors of	Cancer and tumors specified	Other tumors the female ge excepted)	Rheumatis	Rheumatism, gout	Scurvy .	Diabetes .
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		ases		p s,	ia.	ch.	ener	ism,	le	chr ning	chro	al £	ses of of of Sense	litis	itis,
	CAUSES	Diseases—Continued	Goitre,	Addison's disease	Leukemia	Anemia, chlorosis	Other general diseases.	Alcoholism, chronic	Chronic lead	ther chron	Other chronic poisonings.	Total	====	Encephalitis	Meningitis, simple
	Ú		Goi	Add	Leu	Ane	Oth	Alc	Chn	Other pois	Oth		Disease tem and Special S	Enc	Mei
		General	51.	52.	53.	54.	55.	56.	57.	58.	59.		=	.09	61.

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	65 years and under 70 years		<u>:</u> _	<u>:</u> _	_ <u>:</u> _	<u>:</u>	15				<u>:</u> _	<u>:</u>
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	20 years and			<u> </u>	<u>:</u>	<u> </u>	<u>:</u>	<u>:</u>	<u>:</u> -	_ <u>:</u>	<u>:</u>	<u>:</u>
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	ог реатн	e Nervous System Organs of Special	oinal meningitis	is, epidemic cer-	ataxia	Other diseases of the spinal cord (including Infantile paralysis)	congestion and	of the brain	without cause	paralysis of the	Other forms of mental alienation	
	CAUSES	Diseases of the Nervous and of the Organs of Sense—Continued	61a, Cerebro-spinal (undefined)	61b. Meningitis, ebro-spinal	62. Locomotor ataxia	63. Other disea cord (in paralysis)	64. Cerebral apoplexy	65. Softening	66. Paralysis, assigned	67. General insane	68. Other forn	69. Epilepsy

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	10 years and under 15 years		<u>-</u> -		:	:	:		:	₩		:	61
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	3 years and under 4 years		_ - -		<u>:</u>	<u>:</u>	<u>:</u> -	<u>:</u>	:			- <u>:</u> -	
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	CAUSES	of the Nervous the Organs of —Continued	ulsions 5 years	llsior 5 y	ed	lgia	ž			Total of the system, etc.	S	rditi	ardit
	CAU	of t	Convulsions al 5 years	Convulsions of infants der 5 years of age)	Chorea	Neuralgia and neuritis	Other	Diseases their a	Diseases	Ts	Diseases pparatus	Pericarditis	Endoearditis,
		Diseases of the Ne and of the Organ Sense—Continued			_								
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	60 years and under 65 years		10		17	<u>:</u>	:		<u>:</u>	40		<u> </u>	-
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	40 years and under 45 years		<u> </u>	<u>:</u>	<u>:</u>	<u>:</u> _	<u>:</u>	<u>:</u>	<u>:</u>	<u> </u>		<u>. :</u> _	
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	ТН	ttory	the l	:	fections of the arteries (atheroma aneurism, etc.)	mbos		the lymphatr (lymphangitis	other dis-	Total of circulatory	Respiratory	:	1
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	20	the Circulatory Concluded	seas	ctori	of 1a a1	and	s of the vein hemorrhoids, etc.)	of a	f the	of c	of the	of	
	CAUSES OF DEATH	Com	nic di	a pe	ions	lism	ions of hem,	frections osystem etc.)	rrhage s of em	Total or	so.	ses æ	
	CAU	Diseases of the Circ paratus—Concluded	Organic diseases of the heart	Angina pectoris	Affections of the arteries (atheroma aneurism, etc.)	Embolism and thrombosis	Affections of the veins ices, hemorrhoids, bitis, etc.)	Affections of the lymphatro system (lymphangitis. etc.)	Hemorrhages: etses of tl system	T	Diseases Apparatus	Diseases fossæ	
		sease									<u>a</u>		1
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	70 years and under 75 years			<u>:</u>			 4	9	:	<u>:</u>	<u>:</u>	_:	<u>:</u>	<u>:</u> _	15
	65 years and under 70 years		<u>:</u>	<u>:</u>			4		_:_		_:	_:	_:_	<u>:</u>	10
	60 years and under 65 years		:	:		:	<u>∞</u>	- - -	- 5		_:	<u>:</u>	_ <u>:</u> _	c1	13
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	50 years and under 55 years		:	<u>:</u>		_:_	-1	5		<u>:</u>	<u>:</u>		_ <u>:</u>		15
	45 years and under 50 years		:	<u>:</u>		_ <u>:</u> _		<u>∞</u>		<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u> </u>	16
	40 years and under 45 years		:	:		<u>:</u>		<u></u>			<u>:</u>	<u>:</u>	<u>:</u>	<u></u> :	<u>∞</u>
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	2 years and under 3 years		:	:	6:	:	9	C1	:	:	:	:	:	:	10
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	CAUSES	ا م	Affections	Affections body	Bronchitis,	Bronchitis,	Broneho	Pneumonia	Pleurisy	Pulmonary pulmonar	Gangrene	Asthma	phys	ther disea piratory (phthisis	Total ratus
	7D	Diseases of the Respiratory paratus—Concluded	Aff	Aff	Bro	Bro	Bro	Pne	Ple	Pul	Gan	Ast	Em	O th	
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	75 years and under 80 years		<u>:</u>	_ <u>:</u> _	:	<u>:</u>	<u> </u>	:_		<u>:</u>	<u>:</u>	<u>:</u> _	<u>:</u>
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	80 years and under 85 years		:	:	:	:	:	:	:	:	:	
	75 years and under 80 years		:	:	:	34	:		:	:_	<u>:</u> _	ರಾ
	70 years and sander 75 years		:	:	:	:	:	:	:		<u>:</u>	10
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	55 years and under 60 years		<u>:</u>	<u>:</u>	<u>:</u>	G 2	:	o	:	<u>:</u>	:	10
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	40 years and under 45 years			:	<u>:</u>	_:_	<u>:</u>	<u>:</u> _	<u>:</u>	<u>:</u>	<u>:</u>	4
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	20 years and under 25 years		<u>:</u> _	:	:	_ <u>:</u> _	<u>:</u>	<u>:</u> _	<u>:</u> _		<u> </u>	
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	10 years and under 15 years		<u>:</u> _	:	<u>:</u>	_:_	<u>:</u>	<u>:</u> -	<u>:</u>		<u>:</u>	0.5
	5 years and under 10 years		<u>:</u>	:	<u>:</u>	_:_	<u>:</u>	<u>:</u> _	<u>:</u>		<u></u>	
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	CAUSES	s of atus	Other diseases testines	Acute	Hydatid liver	Cirrhosis of	Billiary calculi	Other	Dise	Simple	Other digestive and tui ed)	Tot
		Diseases of the Digestive atus—Continued	110.	.111.	112.	113.	114.	115. (116.	117.	118.	
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	85 years and under 90 years		:	ū	_ :	:	:		:	:	:	÷	:
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	75 years and under 80 years		:	7.0	:	:	:	:	:	:	:	:	
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	65 years and under 70 years		:	30	:	:	:		:	:	:	:	
	60 years and under 65 years		:	2	:	:	:	:	:	:	:	:	
	55 years and under 60 years		:	r-	:	 :	:	:	:	:	:	 :	:
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	45 years and under 50 years		:	4	:	:	:		:	:	:	:	<u>-</u>
	40 years and under 45 years		ಣ	<u>s</u>	:	:	:		:		:	:	
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	15 years and under 20 years		:	:	:	:	:	:	:	 :	:	:	
	10 years and under 15 years		:	:	:	:	:	:	:	:	:	:	
	5 years and under 10 years		:	:	:	:	:	:	:	:		:	:
	Total under 5 years		4	:	:	_ _ _	:	===	:	===	:	====	====
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	3 years and under 4 years		- <u>:</u> -	- :-	÷	- -	<u>:</u>	- <u>-</u> -	<u>:</u>	÷	<u>:</u>	<u>:</u>	<u>:</u> -
	2 years and under 3 years		- -	 -	÷	<u>:</u>	:	÷	:	- <u>-</u> -	<u>:</u>	<u>:</u> -	: -
	I year and under 2 years			- <u>-</u> -	<u>:</u>	<u>:</u>		÷	$-\dot{\cdot}$	- <u>-</u> -	- :	<u>:</u>	: -
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	реатн		:	:	:	-	the	the b	۵	e bi	diseases ital orga	hage	
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		al. VI ito-Urin Annexa	tis,	s di	ia	dise	to so				venere	he ral)	
	CAUSES	nereal. VI. Genito-Urinary Its Annexa	Nephritis, acute	Bright's disease	Chyluria	Other diseases of neys and annexa	Calculi passages	Diseases	Diseases urinary	Diseases	Non-venereal the male ge	Uterine hemorrhage puerperal)	Uterine cerous)
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	90 years and over		====	====	<u>-</u>	=====	===		===	===	===	===	-== - :
	85 years and under 90 years				<u>:</u>		9			:	<u>:</u>	:	<u>:</u> _
	80 years and under 85 years		<u> </u>		<u>:</u>	<u> </u>			_ <u>:</u> _	<u>:</u>		<u>:</u>	
	75 years and under 80 years		<u>:</u> _								<u>.</u> :	<u>:</u>	
	70 years and under 75 years		_ <u>:</u>		<u>:</u>		8 1.5		<u>:</u>	<u>:</u>	:-	<u>:</u>	_ <u>:</u> _
	bnder 65 years 65 years and under 70 years		<u></u> :	<u>:</u> -	:				<u></u> :-	- <u>:</u> -	<u>:</u>	<u>:</u> -	_ <u>:</u> -
	under 60 years						-1-		÷	<u>:</u>	÷	<u>:</u>	<u> </u>
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	45 years and nnder 50 years 50 years and		<u>:</u> -	<u>:</u>	:	:	-4-		<u>:</u>	- <u>:</u> -	:-	- <u>-</u> -	- <u>·</u> -
	40 years and under 45 years		<u>-</u> -	<u>:</u>	<u>:</u>	:	11		:	- <u>:</u> -	: -		- <u>-</u> -
AGE	35 years and under 40 years			:	:	:	7		:		- <u>-</u> -	Ħ	61
AC	30 years and under 35 years		Ħ	:	:	:	9		:	67			
	25 years and under 30 years			:	<u>:</u>	:	4		<u>:</u>	<u>:</u>			
	20 years and under 25 years				<u>:</u>	:			<u>:</u>	<u>:</u> -		_ <u>:</u> _	- -
	L5 years and under 20 years		<u>:</u> -		<u> </u>		<u>:</u>		<u>:</u>	<u>:</u> -	<u>-</u> :-	- <u>:</u> -	<u>-</u> :-
	5 years and under 15 years		<u>:</u>	<u>:</u>	:		<u>:</u>		<u>:</u> -	<u>:</u>	<u>-</u> :-	- <u>:</u> -	 :-
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	Total under 5		<u>:</u> -	6.		:			<u>:</u>	<u>:</u>	_ <u>:</u> -	- <u>:</u> -	_ <u>:</u> -
	under 4 years		<u>÷</u>	<u>:</u>	:		<u>-</u> -		÷	- <u>:</u> -	<u>:</u>	- <u>÷</u> -	
	2 years and under 3 years 8 years and		<u>:</u> -	<u>:</u>	:	<u>:</u>			- :	- : -	<u>-</u> -	- <u>-</u> -	- - -
	1 year and under 2 years		<u>:</u>	<u>:</u>	<u>:</u>				- <u>:</u> -	- <u>:</u> -	- :-	- <u>:</u> -	: -
	Under I year		<u>:</u> -		:		8		:	<u>-</u> -	- <u>:</u> -	- <u>-</u> -	_ <u></u> -
	Total for 1920		ç1	:	:	:	102			<u>ත</u>		====	70
	CAUSES OF DEATH	seases of the Genito-Urinary Apparatus and its Adnexa— Continued	Other diseases of the uterus	Cysts and other tumors of the ovary	Salpingitis and other diseases of the female genital organs	Diseases of the breast, non-puerperal (cancer excepted)	Total of genito-urinary	Puerperal State.	Accidents of pregnancy	Hemorrhage, puerperal	Other accidents of labor	Septicemia, puerperal	Puerperal albuminuria and convulsions
		Diseases Appara Continu	130.	131.	132.	133.		×.	134.	135.	136.	137.	138.

SEX	Pemales			:	:	10			_:	:				
S	Males				:			<u>:</u>						
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	85 years and suder 90 years		:	:	:	:		_:	:_	_:	:	_ <u>:</u> _		:
	80 years and under 85 years		:						_ <u>:</u> -	_ <u>:</u>				
	75 years and under 80 years					:		:	<u>:</u>					:
	70 years and sake 175 years							<u>:</u>	:		:			
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	OF DEATH	-Con	emb	childbirth defined)	Puerperal diseases breast	Total puerperal	the	:	Furuncle (carbuncle)		Other diseases of the and annexa	in t	the Bones Locomotion	(non-tuberculous)
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	CAUSES	St	Phlegmasia puerperal, den death	Following otherwise	Puerper breast	Tots	r Ti	Gangrene	runc	nte	Other a	Tota	Diseases of Organs of	Affection (non-tube
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	CAUUSES OF DEATHI Total for 1920 Under I year I year and under 2 years	the Bones and Or- Locomotion—Contin-	Diseases of the joints (tuberculosis and rheumatism excepted)	Amputation	Other affections of the organs of locomotion	Total organs locomotion 4	Malformations	Malformations, congenital (still births excepted). S. Congential malformation of heart. Gonden congenital malformations.	Early Infancy	Congenital debility, icterus and selerana Teranature birth (not stillbirth) stillbirth)	Congenital debility 28 27 1
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	CAU	Affections Produced Causes—Continued	Suicide	Suicide by high places	Suicide by crushing	Other suicides	T	Poisoning by food	Other acute	Conflagration	Burns	Absorption gases (cocepted)	Accidental	Traumatism
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		Affecti	171.	172.	173.	174.	175.	176.	177.	178.	179.	180.	181.	182.

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	15 years and		<u>:</u>	<u>:</u>	:	<u>:</u>	-4-			<u>:</u> -	:	<u>:</u> -	7 28	<u>:</u>	<u>:</u>
	Under 10 years		<u>:</u>	_ <u>:</u> -	:	<u>:</u>			<u>:</u> -	_ <u>:</u> -	<u>:</u>	- <u>:</u> -	42 27	<u>:</u>	
	years and		==:	<u>:</u>		_ <u>:</u> -	5 11	-=-		<u>:</u>	: 	===		<u>:</u>	=
	Total under 5 years Total under 5			_ <u>:</u>		<u>:</u>				<u>:</u>		10	587	<u>:</u>	
	4 years and		<u>:</u>			_:_			:	<u>:</u>		<u>:</u>	10	<u>:</u>	
	a years and sours and sours and years		<u>:</u>	_ <u>:</u> _					<u> </u>	_ <u>:</u> -	<u>:</u>		17	<u>:</u>	
	under 2 years 2 years and			<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>		<u>:</u>	<u>:</u>		<u> </u>	5 29	<u>:</u>	
	1 year and		<u>:</u>	<u>:</u> `		<u>:</u>			_ <u>_</u> _	_ <u>:</u> -	<u>:</u>		426 105	_ <u>:</u> -	
	Under 1 year		<u>:</u>	<u>:</u>	<u>:</u>				====	=≐=		2		<u>:</u>	=
(Ogel Tol IstoT		1	:	-	¢1	-1		1	:	14	15	1770		
	CAUSES OF DEATH	by External	by cutting or instruments	other means	(cause not	Other external violence	affections, ctc	ases.	organie dis-	:	death not speei-	ill-defined dis-	all causes.	:	
	F D		by instru	by o	€ :	rnal	affect	Diseases	OT.	death	death 11-der	ill-d		:	
	ES	roduc	ide ng i		res ied)	exte	Total a		ned	n de	of	•	Total from	Males	Females
	AUSI	S P	Homicide piercing	Homieide	Fractures specified)	ther	Tot	III-Defined	Ill-defined eases	Sudden	Cause	Total eases	Tot	7	Fer
	Ď	Affections Produced Causes—Continued	83. H	84. He	85. Fr	86. Ot		XIV. III	.87. III	88. St	189. Cg				
		<	Ξ	Ē	ĩ	-		×		1	F				

COLLECTION OF ASHES, 1920

	Loads
January	3,565
February	2,380
March	3,365
April	3,497
May	2,760
June	2,444
July	2,309
August	2,044
September	2,076
October	2,174
November	2,962
December	3,837
	33,413

COLLECTION OF SWILL, 1920

	Loads
January	$356\frac{1}{2}$
February	226
March	308
April	$283\frac{1}{2}$
May	274
June	297
July	297
August	$378\frac{1}{2}$
September	445
October	365
November	$324\frac{1}{2}$
December	295
<u> </u>	
	0.050

3,850

594 loads of Market Refuse were collected in 1920. 768 loads of Paper were collected in 1920.

SWILL ACCOUNT, 1920

January	\$	390.64
February		240.02
March		325.02
April		295.63
May		285.04
June		311.28
July		311.29
August		398.12
September		461.27
October		364.39
November		321.25
December		293.76
Swill Licenses		490.00
	\$4	.487.71
	Ψ	9101.11

652 loads of swill were charged to the City Farm in 1920. 92 Swill Licenses were issued during the year.

FINANCIAL STATEMENT—EXPENDITURES

PAY ROLLS—OFFICE

January	\$ 2,024.72
February	1,649.17
March	1,767.71
April	1,616.88
May	2,034.60
June	1,733.75
July	2,503.46
August	1,766.88
September	1,546.88
October	1,854.20
November	1,467.48
December	1.778.50

\$21,744.23

PAY ROLLS—YARD

January\$	8,684.90
February	7,611.06
March	8,999.74
April	8,433.51
May	10,494.34
June	8,036.28
July	9,775.62
August	7,693.55
September	7,399.54
October	8,688.72
November	7,450.96
December	9,548.72

\$102,816.94

SALARIES OF HEALTH OFFICE	CALABIES	() H'	H E A	HTT	() B' B' I () B)	1920
---------------------------	----------	--------	-------	-----	--------------------	------

	,
Agent	\$ 2,306.33
General Inspector	. 1,872.88
Plumbing Inspectors:	
Garrity	672.75
Midwood	. 1,805.50
Ryan	
Health Inspector	
Fumigator	
Nurses	. 4,939.40
Dr. Leland	. 1,003.75
Nurse at G. U. Clinic (Male)	. 240.00
Registrar	. 1,269.07
Tuberculosis Examining Physician	. 402.68
Vaccinating Physician	. 402.68
Meat Inspector	1,003.75
Clerk	. 312.50
Wages during quarantine	. 28.00
Expenses of Cottage Hospital	. 1,454.67
Wages during Smallpox quarantine	. 132.00
Salaries of Board	
Salaries of Bacteriologist	
	\$24,849.12
YARD LABOR, 1920	
Ashes	. \$ 48,073.88
Swill	
Dumps and Alleys	
Stable	
Foreman	
Blacksmith	,
Market Refuse	
Yardman	
Wheelwright	
Vacations	
Smallpox	
Smaripox	

\$102,816.94

HEALTH OFFICE SUNDRIES

Alcohol	\$ 61.67	
Alcohol Bond	10.00	
New Auto	1,750.00	
Auto Expenses	259.78	
Advertising	103.45	
Bacteriological Laboratory	195.59	
Books	45.40	
Batteries	4.50	
Clerical Services	242.50	
Culture Tubes	21.33	
Car Tickets	812.00	
Express	48.43	
Fumigating Supplies	214.20	
First Aid Cabinet	13.00	
Investigating deaths	59.00	
Printing	425.75	
Printing Annual Report	288.00	
Stamped envelopes	145.25	
Steel cases	12.50	
Sundries	232.10	
Traveling expenses	13.37	
Telephone	24.30	
Tetanus Antitoxin	36.00	
Vaccinating	86.00	
Vaccination plasters	8.90	
Tongue Depressors	9.30	
Office supplies and sundries		\$ 5,122.32
Children's Hospital, Boston	94.51	φ 0,122.02
Boston, City of	22.00	
Cottage Hospital Expenses:	22.00	
Medicine		
Medical service		
Provisions 158.47		
Supplies	748.57	
Everett, City of	5.65	
Fitchburg	40.00	
Infantile Paralysis Clinic.	140.86	
Limousine	2.00	
Medicine	19.85	
Medical and Surgical supplies	26.05	
Medical and burgical supplies	20.00	

Medical services	276.00	
Tewksbury Infirmary	266.00	
Smallpox Expenses:		
Fuel 8.00		
Medical services 40.00		
Provisions		
Sundries		
Vaccination at homes 38.00		
Telephone	182.68	
Other contagious diseases		\$ 1,824.17
G. U. Clinic Expenses:		,
Building Department	6.04	
Bottles	1.20	
Express	.38	
Electric Light	2.20	
Gauze	33.42	
Indices	6.00	
Laundry	76.82	
Medicine	144.33	
Photographs	15.00	
Surgical supplies	621.32	
Sundries	5.45	
Stamps	42.70	
Sheeting	24.08	
Printing	7.50	
Traveling expenses	144.97	
		\$ 1,131.41
W., b.,		
Tuberculosis Expenses:	04.00	
Burial	84.80	
Boston Consumptives' Hospital	159.00	
Cambridge City of	31.50	
Chelmsford Street Hospital	1,099.64	
Lakeville Sanatorium	596.06	
Lawrence Tuberculosis Hospital	2,890.50	
Medical services	87.00	
Medicine	79.65	
Napkins at Clinic	1.90	
North Reading Sanatorium Provisions	1,105.25	
Rutland Sanatorium	1,357.41	
	956.57 50.00	
Sputum cups	90.00	

Traveling expenses	91.66
Tewksbury Infirmary	636.86
Westfield Sanatorium	664.21

\$ 9,892.01

\$17,969.91

YARD SUNDRIES

Blacksmith's supplies	\$ 1,582,76
Brooms	10.00
Bran	312.50
Coal	278.50
Canvas Covers	129.00
Collars	13.50
Electric repairs	40.72
Electric Light	133.85
Gas	144.72
Hose	11.50
Hay	14,611.27
Horses	1,625.00
Harness Repairing and supplies	775.35
Hardware	312.07
Ice	2.80
Lumber	41.60
Laundry	810.00
Leather	13.00
Medicine	10.40
Oats	10,498.16
Repairing garage	109.43
Straw	371.89
Sundries	116.83
Telephone	12.05
Use of horses	799.00
Veterinary services	102.50
Water	201.27

\$33,069.67

MILK DEPARTMENT

SALARIES

Collector	1,294.20	
	\$3,364.20	
SUNDRIES		
Books	\$ 21.25	
Express	2.49	
Chemicals	10.48	
Glassware	148.84	
Motor Hire	47.10	
Printing	8.50	
Subscription to paper	8.00	
Transportation	3.00	
Traveling expenses	10.26	
Towels	18.00	
Sundries	11.57	
Testing Babcock	4.00	
Telephone	65.30	
	\$ 358.79	

INCOME TRANSFERRED TO GENERAL FUND, 1920

HEALTH DEPARTMENT

Swill Sold	\$3,997.71
Swill Licenses	490.00
Denatured Alcohol Licenses	16.00
Massage Licenses	2.00
Genito-Urinary Clinic Fees	704.20
Mrs. Catherine Barrett, for board of son at Tuberculosis	
Hospital	30.00
Mrs. Verriest, for board of John McDonald at Tuberculo-	
sis Hospital	30.00
Travellers' Insurance Co	12.00
Nicolo Bonura, for board of Jennie Bonura at Isolation	
Hospital	77.14
W. A. King, for ambulance for D. Kiley	10.00
Costos Vlahakos (Sale of Manure)	137.63
Belleville & Waite (Sale of Manure)	163.76
Commonwealth of Massachusetts	1,492.41
Town of Weymouth	53.57
Mr. Malenfant, for board of son at Cottage Hospital	6.45
New Bedford, City of	14.68
Paul Burgess, for board at Cottage Hospital	40.00
Overdraft	32.00
T. Varnum, for use of pasture at Isolation Hospital	100.00
	\$7,409.55
MILK DEPARTMENT	
Licenses	\$ 373.50

COST OF HEALTH DEPARTMENT, 1920

EXPENDITURES

Salaries of Board	\$ 2,194.89
Salary of Bacteriologist	1,000.00
Pay Rolls, Office	21,744.23
Bills, Office	17,969.91
Yard Labor	102,816.94
Yard Sundries	33,069.67
Milk Department Salaries	3,364.20
Milk Department Sundries	358.79
Medical Inspection Private Schools	800.00
·	
Total	\$183,228.63
APPROPRIATIONS	
Health Office	\$ 34,250.00
Health Yard	112,000.00
Milk Department	3,600.00
Medical Inspection Private Schools	800.00
	\$150,650.00
Additional Appropriations	16,012.00
Department Transfers	642.51
Overdraft	32.00
	\$167,336.51
Deficit	\$ 15,892.12
	\$183,228.63
	,,

SUMMARY, 1920

Extra Debit Balance \$2,741.66 4,025.07 16.55	\$6,783.28
Debit Balance \$1,815.37 7,187.03 106.44	\$9,108.84
Further Expenditures 1920 Paid Out of 1921 Levy \$2,741.66 4,025.07 16.55	\$6,783.28
Expenditures 1920 \$40,077.37 131,861.54 3,706.44	\$176,445.35 6,783.28 \$183,228.63
Overdraft \$32.00	*32.00
Transfers \$642,51	\$642.51
Supplementary Appropriation 4,012,00 12,000,00	\$16,012.00
Original Appropriatiod Health Office \$ 34,250.00 Health Yard 112,000.00 Milk Department . 3,600.00 Medical Inspection Private Schools .	\$150,650.00

	Popula-				City's	Taxation per
Year	tion	Expenditures	Revenue	Net Cost	Valuation	Capita
1894	83,026	\$a57,073.73	\$ 318.43	\$56,755.03	\$69,091,536	.63
1895	84,359	46,324.04	570.80	45,753.24	68,885,732	.54
1896	85,700	45,587.11	265.57	45,321.54	69,910,472	.53
1897	87,000	48,551.84	2,369.99	46,181.85	70,389,280	.53
1898	87,000	41,026.78	3,229.02	37,779.76	70,977,303	.43
1899	90,114	40,830.23	3,796.05	37,034.18	71,255,587	.41
1900	94,969	b46,266.11	3,647.03	42,619.00	71,529,515	.44
1901	94,969	46,673.41	4,585.26	42,088.15	71,674,588	.44
1902	95,574	c54,815.33	6,103.87	48,711.46	71,903,757	.48
1903	101,959	d46,168.01	4,085.12	42,682.89	72,004,028	.41
1904	104,402	e46,451.97	4,137.31	42,314.66	71,614,907	.40
1905	94,889	f51,707.39	3,727.41	47,979.98	71,645,718	.50
1906	96,380	54,096.00	4,566.66	49,529.34	74,325,775	.51
1907	96,380	57,763.79	6,808.20	50,955.59	76,079,750	.53
1908	96,380	g57,342.61	6,418.50	50,924.11	77,858.891	.53
1909	96,380	56,346.33	6,763.73	h49,582.60	79,176,837	.51
1910	106,294	h65,911.31	h6,770.56	h59,140.75	80,094,803	.56
1911	106,294	i73,425.97	i6,762.36	i66,663.61	82,166,743	.62
1912	106,294	j74,136.25	j7,031.59	j67,104.66	84,797,348	.63
1913	106,294	k91,635.29	7,042.53	84,592.76	87,277,643	.80
1914	106,294	182,448.34	8,040.56	74,407.78	89,294,001	.70
1915	106,294	m88,841.59	6,492.16	82,349.43	92,716,047	.77
1916	107,978	n94,305.92	7,112.16	87,193.76	94,503,423	.80
1917	107,978	0104,327.19	7,379.26	96,947.93	90,820,901	.90
1918	107,978	p136,626.32	7,465.93	129,160.39	98,939,125	1.19
1919	107,878	q150,901.84	8,067.31	142,834.53	107,315.763	1.32
1920	112,759	r183,228.63	7,783.05	175,445.58	123,919.102	1.53
a.	Smallpox	and Swill Cr	emation, \$3	12,708.25.		
b.	Smallpox.	\$4,739.67				

- b. Smallpox, \$4,739.67c. Smallpox, 6,626.20d. Smallpox, 1,000.00
- e. Smallpox, 1,010.02
- f. Smallpox, 3,297.08
- g. Smallpox, 291.64 h. This includes expenditures and revenue of Milk Dept.

i.	"	"	4.6	**	64		
j.	"	44	**	66	"	also	Smallpox.
k.	44	**	"	"	"	46	"
1.	66	**	46	**	44		
m.	44	"	66	"	"		
n.	66	**	44	44	66	44	44
0.	46	44	44	44	14		
р.		44	44	"	4.6	44	"
q.		+6	44	4.6	64	+4	66
r.	+ 6	46	4.6	44	4.6	44	"







NINTH ANNUAL REPORT

OF

FIRE COMMISSIONER

OF THE FIRE DEPARTMENT CITY OF LOWELL



FOR THE YEAR NINETEEN HUNDRED AND TWENTY

Sullivan Bros., Printers Lowell, Mass.



REPORT

LOWELL, MASS., January 1, 1921.

TO THE MUNICIPAL COUNCIL OF THE CITY OF LOWELL:

GENTLEMEN:—I herewith submit the ninth annual report of the Commissioner of the Fire Department for the year ending December 31st, 1920.

The following statement will show the receipts and expenditures for the year:

RECEIPTS

Appropriation	\$330,055.00
Transfers	237.50
_	\$330,292,50

EXPENDITURES

Fire Alarm	1,263.44
Automobile repairs and upkeep	5,697.96
Chemicals	305.20
Coal and wood	7,106.54
Furniture and bedding	483.75
Freight and express	93.40
Harness repairs	148.05
Hay and grain	7,373.62
Laundry	880.32
Lighting	3,027.12
Printing and stationery	331.06
Repairs	145.47
Shoeing	1,110.13
Soap	208.69
Sundries	$2,\!196.12$
Telephone	299.74

Veterinary 105.	13
Wagon repairs 944.	
Water bills 942.	09
\$ 32,662. Salaries and wages	
*Deficit	11,295.16
*The payment of this deficit was provide	ed for by vote
of the Municipal Council, pursuant to Sectio	n 16. Chapter
719, Acts of 1913, and by appropriation to b	
cordance thereto.	•
RECEIPTS	4
Appropriated for Motor Driven Apparatus.	\$27,800
EXPENDITURES	
1 Hook and Ladder Truck \$ 8,755 2 Combination Pump, Hose and	
Chemical 19,000	27.755
Balance	\$45.00
Details of the general work of the depar	tment will be
found in the Chief's nament which follows	

found in the Chief's report which follows.

Respectfully submitted,
JOHN F. SALMON, Commissioner of Fire Department

CHIEF'S REPORT

Chief's Office, Central Fire Station, Lowell, Mass., January 1, 1921.

To the Commissioner of Water Works and Fire Protection of the City of Lowell:

Dear Sir: In compliance with the City ordinance, I have the honor of submitting for your consideration the annual report of the condition and operation of the Fire Department for the year ending December 31st, 1920.

SALARIES OF MEMBERS OF THE FIRE DEPARTMENT

Chief Engineer\$3,000.00) per	annum
1st Deputy Chief) per	annum
2nd Deputy Chief 2,300.00	per	annum
3rd Reputy Chief	per	annum
Captains of Companies 5.58	3 per	day
Lieutenants of Companies 5.30) per	day
) per	day
Permanent Men, 1st grade 5.00	per	day
Permanent Men, 2nd grade 4.00) per	day
	o per	day
	per	week

FORCE

The two platoon system went into effect February 4th and all members of the force are now permanent. The force consists of:

1 Chief Engineer
2 Chauffeurs
3 Deputy Chiefs
1 Fire Alarm Operator
2 Linemen
2 Chauffeurs
12 Drivers
88 Hosemen
34 Laddermen

3 Telephone Operators 20 Patrolmen

6 Engineers of Steamers

A total of 172, of which 18 are Captains and 16 Lieutenants.

They are divided into companies as follows:

- 6 Steam Fire Engine Companies.
- 6 Horse Hose Companies, one with Chemical Engine attached.
- 4 Hook and Ladder Companies, one with Chemical Engine attached.
 - 1 Protective Company.

CHANGES DURING THE YEAR

Appointed permanent	26
Appointed permanent from call force	1
Died, permanent	3
Pensioned, call	1
Pensioned, permanent	4
Call force abolished	

APPARATUS

The apparatus of this department is kept in the best possible condition and consist at present of:

Chief's Automobile	1
Assistant Chiefs' Automobiles	2
Electrician's Automobile	1
Combination Motors, Chemcial and Hose Wagons	6
Triple Combinations	4
Auto Patrol Wagon	1
Auto Truck	1
Service Car	1
Steam Fire Engines	5
Two Horse Hose Wagons	3
Ladder Trucks	3
Chemical Engines	1
Hale Water Tower	1
Fuel Wagons	7
Fire Extinguishers	28

RESERVE APPARATUS

Chemical Engine	1
Electrician's Wagon	1
Two Horse Hose Wagons	3

HORSES

There are at the present time in the service of the department twenty-three horses.

HARNESS

The harness in use in the department at the present time consists as follows:

Sets	of	double sw	ringing	harn	ess				3
Sets	of	three hors	se swin	ging	harness.				6

TELEPHONE

The telephone system is the same that was installed in 1913, consisting of one thirty line switchboard located at the Palmer Street Station, which is connected with the central office of the New England Telephone and Telegraph Company by two toll lines and also the fifteen different fire stations, the Chief's office and residence, the three District Chiefs' residences and battery room with eleven local lines.

PROTECTIVE DEPARTMENT

This department is maintained by the City and consists of twenty permanent men. They have responded to two hundred and fifty-five alarms; in service one hundred and thirty-two hours; spread three hundred and sixty-nine covers; used fifty-two extinguishers and thirty-five tanks; raised four hundred and thirty-six feet of ladder.

FIRE PREVENTION

A systematic inspection of buildings is made by the members of the Fire Department in order to relieve the fire hazard of the city. Each company has a certain district to inspect, and each inspection is recorded on a printed slip with report of conditions found. These slips are turned over to the Chief of the Department, and, when the conditions found are considered dangerous, letters are sent to both owners and tenants to have said conditions remedied 13,659 buildings were inspected during the year by the different companies.

FIRES AND LOSSES

The whole number of alarms during the year ending December 31st, 1920 was eight hundred and seventy-six Two hundred and sixteen (216) were given from signal boxes; three hundred and forty-two (342) telephones; one hundred and fifty-six (156) stills; thirteen (13) automatics; four (4) exposures; and one hundred and fortyfive (145) reported fires. The "No School" signal was given twenty-nine (29) times. There were three hundred and twenty-seven (327) fires extinguished by chemicals alone and one hundred and thirteen (113) where water was The remaining number were extinguished by other means or had been put out before the arrival of the depart-Eighty-six (86) were in brick or stone buildings; three hundred and forty-six (346) in frame buildings, and two hundred and ninety-nine (299) other than building The reported fires were mostly in frame buildings.

The whole amount of loss, except the reported fires, was two hundred ninety-one thousand, eighteen dollars and twenty eight cents (\$291,018.28.) Insurance, three million six hundred eighty-four thousand, six hundred forty-four dollars and twenty-four cents (\$3,684,644.24;) insurance paid, one hundred ninety-four housand, two hundred fifty-five dollars and eighty-eight cents (\$194,255.88.) Loss above insurance, ninety-six thousand, seven hundred sixty-two dollars and forty cents (\$96,762.40.) Valuation, three million, eight hundred ninety-eight thousand, two hundred forty-five dollars (\$3,898,245.) The reported loss was nine thousand, nine hundred and ninety-four dollars and four cents (\$9,994.04;) insurance three million, four hundred forty-four thousand, four hundred and ninety-four dollars (\$3,444,494;) valuation, three million, five hundred and forty thousand, six hundred fifty dollars (\$3,540,650.)

There have been eleven (11) alarms out of the city, to which some part of the department has responded, for which no insurances are kept; Chelmsford 1, Dracut 4, East Chelmsford 1, North Chelmsford 2, Tewksbury 2, West

Chelmsford 1.

There have been thirty-one (31) fires where the loss

was \$1000 and over.

January 6th, 85 Tanner Street, owned by David Ziskind and occupied by Lowell Waste Paper Company, loss \$20,636.51.

January 24th, Lawrence Street, owned and occupied

by the Primitive Methodist Church, loss \$12,852.00.

February 1st, 94 Princeon Street, owned and occupied by S. W. Abbott, loss \$7,013.47.

February 8th, 8 Oak Avenue, owned by B. F. Stevens and occupied by M. Albanion, loss \$3.360.

February 28th, 20 Nelson Street, owned and occupied

by I. E. Shaw, loss \$2,200.

March 6th, 361 Stevens Street, owned and occupied by

C. H. Willis, loss \$5,700.

March 13th, 22 O'Connell Street, owned and occupied by K. Stackpole, loss \$1,400.

March 21st, 416 Suffolk Street, owned by Nora Murphy

and occupied by several, loss \$2,348.27.

March 26th, 13 Adams Street, owned by P. H. Ryan

and occupied by P. Donohoe, loss \$1,291.70.

April 7th, Shattuck Street, owned by Gregg & Hart and occupied by the Thompson Hardware Company, loss \$1,056.70.

April 25th, 236 Salem Street, owned and occupied by

A. DeLamotte, loss \$5,281.

May 10th, 58 Fremont Street, owned by F. Hebert and

occupied by E. M. Gaffney, loss \$1,622.25.

May 19th, 373-81 Middlesex Street, owned by I. Bernstein and occupied by Sinteos and Coffetgatisis, loss \$3.000.03.

June 22nd, 12 John Street, owned by James C. Reilly, Trustee, and occupied by Cherry & Webb, loss \$61,893.73.

July 8th, 62 Suffolk Street, owned by A. Husson and occupied by several, loss \$2,821.50.

July 15th, Pawtucket Street, owned and occupied by C.

M. A. C. Association, loss \$1,730.

August 23rd, 18 Western Avenue, owned by G. L. Cady

&Sons and occupied by several, loss \$7,203.51.

September 3rd, 588 Merrimack Street, owned by M. Ansara and occupied by J. J. Brennan Company, loss \$1,082.

October 5th, rear 592 Broadway Street, owned and oc-

cupied by P. D. McAuliffe, loss \$1.370.74.

October 22nd, 139 Gorham Street, owned by J. F. Saunders Estate and occupied by Saunders Market Company, loss \$3,020.77.

November 12th, 34 Brooks Street, owned and occupied

by G. Parianos, loss, \$1,680.

November 15th, 411 Adams Street, owned and occu-

pied by K. Zaroulis, loss \$1,878.

November 17th, 46 Circuit Avenue, owned and occupied by Mrs. L. Therriault, loss \$5,100.

November 21st, 445 Middlesex Street, owned and oc-

cupied by T. Hoban, loss \$1,025.

November 22nd, 121 Eleventh Street, owned and occupied by F. D. Hall, loss \$14,236.

November 30th, 53 Central Sreet, owned by J. T. Stevens Heirs and occupied by several, loss \$70,482.39.

December 3rd, 807 Pawtucket Street, owned and occu-

pied by A. Boyle, loss \$3,065.

December 24th, 101 Pleasant Street, owned and occupied by William J. and Annie Kelley, loss \$1,013.

December 26th, 33 Lawrence Street, owned and occu-

pied by A. J. Culver, loss \$1,361.

December 27th, 388 Middlesex Street, owned by David Ziskind and occupied by K. Anastasion, loss \$2,948.26.

December 30th, 285 Thorndike Street, owned by G. Kahan and occupied by G. Kahan and others, loss \$21,948.29.

The total loss on these thirty-one (31) fires was two hundred seventy-one thousand, six hundred twenty-one dollars and twelve cents (\$271,621.12) leaving nineteen thousand, three hundred ninety-seven dollars and sixteen cents (\$19,397.16) to be divided between the other seven hundred alarms.

A comparison of the Total Number of Alarms and Losses from January, 1905 to January, 1921:

Year	Alarms	Ins. Loss	Unins. Loss	Total Loss
1905	798	\$ 89,112.18	\$ 1,850.00	\$ 90,962.18
1906		64,994.94	2,270.71	67,265.65
1907	838	242,167.98	39,624.52	281,792.50
1908	935	350,873.25	16,421.80	367,295.05
1909	963	177,759.11	8,705.80	186,464.91
1910	904	64,781.93	3,188.00	67,969.93
1911	1101	86,034.34	$19,\!295.48$	105,329.82
1912	959	260,833.26	9,575.99	270,409.25
1913	882	200,600.03	19,825.26	220,425.29
1914	1028	265,804.53	17,476.53	283,281.06
1915	926	170,262.53	12,127.67	182,390.20
1916	896	138,170.66	3,400.86	141,571.52
1917	1031	129,207.10	14,994.73	144,201.83
1918	1047	161,940.71	37,688.51	199,629.22
1919	942	211,681.50	20,461.42	232,142.92
1920	876	204,249.92	96,762.40	301,012.32
1	NUMBER OF	ALARMS OF	FIRE EACH	MONTH

January65	August
February43	September 43
March	October 60
April82	November 76
May72	December 56
June	Reported145
July	•
Total	876

CAUSES OF FIRES AND ALARMS

Alarms for same fire	27	Hot coals	. 2
Ammonia tank leaking	1	Hot cinders \dots	. 4
Automobiles	31	Hot iron in oil	. 1
Boiler smoking		Insulation of wires	
Broken gas pipe		Kerosene stove exploded.	. 2
Brush	7	Kettle of fat	. 3
Candles	1	Lamp in incubator	. 1
Carelessness		Lamp set curtain	. 1
Careless use of matches	13	Leak in water pipe	. 1
Cat in tree	1	Lightning	. 5
Children and matches	16	Motor	. 3
Children locked in room.	1	Motor cycle	. 1
Chimney		No school	$.2\overline{9}$
Cigaret	37	Oil heater	. 2
Combustion	37	Oil lamp	
Defective boiler	1	Oil stove	. 5
Defective chimney	$\overline{13}$	Oily rags	$\tilde{2}$
Defective funnel	1	Out of the city	.11
Defective oven		Overheated boiler	. 4
Defective stove pipe	$\bar{1}$	Overheated chimney	$\overline{7}$
Defective wires	$\bar{5}$	Overheated funnel	. 2
Drying plaster	. 1	Overheated furnace	
Drying wood in oven	. 1	Overheated motor	. 1
Dump	. 53	Overheated stove	. 6
Dust in chute		Pan of meat	. 5
Electric heater		Picker machine	. 1
Electric wires	. 3	Plug on boiler blew out.	. 1
Exposure	. 4	Plumber's torch	. 5
False alarms	. 13	Rats and matches	
Fat on stove	. 4	Rekindled	.18
Fireworks	. 9	Reported alarms	145
Friction from belt	. 1	Rescuing boys on rock	. 1
Furnace smoking	. 1	Rubbish	.28
Gas heater		Second alarms	. 5
Gas jet	. 4	Set by boys	. 7
Gas leak	. 2	Short circuit on motor	. 1
Gas stove	. 5	Smoke from boiler	. 1
Gasoline in sewer	. 2	Smoking set bed	. 9
Gasoline stove	. 1	Sparks from chimney	. 5
Gasoline tank leaking		Suarks from motor	. 2
Gasoline torch		Sparks in chute	. 2
Grass	.84	Sparks in dust pan	. 1
Grease on stove		Sparks set roof	.10
Heat set off sprinkler		Sprinker pipe burst	. 1
Hot ashes	. 7	Steam escaping	. 1
Hot box	. 2	Steam from clothes	. 1

Steam pipe1Stove pipe1Stove polish1Stove set woodwork1Stove smoking10Tar kettle4Thermostat system out of order11	Thawing water pipes. 7 Unknown
NUMBER OF ALARMS AND THE DEPARTMENT 2nd Deputy Chief D. H.	SWERED BY MEMBERS OF NT ON DAYS OFF F. E. Alcott
Crowley	W. H. Bamford 4 J.Bernier 3 R. Bisaillon 3 F. Boynton 1 F. Broadbent 3 R. W. Broadbent 4 P. F. Calnan 1 R. Carland 2 W. G. Chain 1 W. F. Christie 4 C. H. Cogswell 1 G. A. Collins 1
Captain G. E. Flint	M. I. Collins 2 B. F. Connors 1 J. F. Convery 2 W. J. Corbett 1 H. G. Cote 1 G. A. Crawford 2 G. A. Dickey 1
Lieut. G. W. Alcott	W. F. Dolan 2 J. J. Donahoe 1 J. T. Doyle 1 M. E. Egan 2 W. F. Egan 2 J. N. Emerson 1
Lieut. J. W. Halstead 2 Lieut. P. F. Mahoney 2 Lieut. P. F. Mooney 1 Lieut. A. F. Prescott 2 Lieut. L. P. Reed 1 Lieut. C. F. Stackpole 1 Lieut. T. H. Welch 2	J. D. Finnegan 2 J. A. Fletcher 3 J. E. Fontaine 4 Q. A. Foster 2 F. J. Geary 1 M. J. Gildea 3 N. Gradchamp 4

H. V. Green3	P. J. Mooney 4
J. A. Haley	J. P. Moore1
P. A. Healy1	J. J. Moran, Jr
H. W. Hilliard2	H. R. Morrison1
W. S. Holt	B. J. Mullen
G. J. Hurley4	J. J. Mulligan2
J. W. Jantzen4	D. J. O'Connor4
P. A. Johnston 4	E. J. O'Donnell3
A. E. Kenefick 1	J. O'Hare1
A. E. Kidder1	W. H. Oke1
W. H. Kirkpatrick2	P. H. O'Loughlin3
D. Laferriere1	R. Otley
E. Landry	S. R. Pendexter4
W. J. Lane	E. Perham1
W. O. Lussier2	P. J. Regan1
T. F. Maguire1	W. F. Riley
J. J. Malone1	J. J. Rinehardt1
T. P. McColough2	J. H. Rogers3
J. F. McCready 1	E. E. Smith
G. H. McDermott3	F. J. Sullivan1
J. E. McGann4	R. N. Symonds3
J. F. McGuinness3	J. F. Thomas2
A. B. McLaughlin1	E. J. Tighe4
H. A. McLaughlin1	G. J. Tracy1
M. F. McNally2	J. H. Tracy3
W. E. McNally2	J. J. Wholey 4
J. P. Mealev	

SERVICE OF THE DEPARTMENT FOR 1920

	Number of covers used	369	369
	Hours engines worked	4 4 ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½ ½	12
	Feet of ladders raised	210 495 300 250 250 444 465 10 160 35 1,392 1,392 1,392 1,392 1,392 436 436	7,624
	Number of chemical tanks used	10 22 18 18 39 66 39 8 8	191
	Number of extinguishers used	39 70 70 70 70 70 70 70 70 70 70 70 70 70	495
	Hours of hydrants in use	15. 17. 17. 17. 17. 17. 17. 18. 18. 18. 18. 18. 18. 18. 18	3691/4
	Feet of Hose Iaid	6,350 12,960 8,050 6,200 7,300 9,000 3,500 7,500 11,750 7,700 6,450	94,362
	Number of hours worked	28 88 88 88 88 88 88 88 88 88 88 88 88 8	1,3661/4
	Number of alarms attended	106 1449 1151 103 103 103 103 115 115 115 115 115 115 115 115 115 11	1,847
		Engine No. 2 Engine No. 2 Engine No. 3 Engine No. 4 Engine No. 5 Engine No. 6 Hose No. 7 Hose No. 10 Hose No. 11 Hose No. 11 Hose No. 12 Truck No. 1 Truck No. 2 Truck No. 3 Truck No. 3	1

FATALITIES

April 13th. Pereca Freitas, 110 Tilden Street, age ten months. Charcoal iron set clothing.

May 1st. Mrs. Rufus A. Jameson, 223 Appleton Street, age forty-nine years. Clothing caught from kereosene.

July 1st. Dorothy Absay, 99 Suffolk Street, age nine years. Burning papers set clothing.

August 8th. Irving A. Sullivan, 332 Pawtucket Street, age eighteen years. Used a match to see if there was any gasoline in tank. Fumes ignited burning him.

September 22nd. Manuel Pombrisho, Marshall Avenue, age fifty years. Burned while running a still for liquor with gasoline heater.

October 16th. Constane Lutz, 53 Dracut Street, age five years. Playing with matches in yard, set clothing.

November 12th, Constatine Parianos, age seven years, Vasilea Parrianos, age five years, Catherine Parianos, age three years, all of 34 Brooks Street. Children set fire with matches.

In conclusion I wish to extend my thanks to His Honor, the Mayor, the Commissioner of Water Works and Fire Protection and the Municipal Council for the interest taken in matters pertaining to the Fire Department. I also wish to thank the officers and members of the Department for the ability, faithfulness and willingness shown in the performance of their duties. I wish to extend thanks to the Chief of Police and the members of the Police Department for the assistance rendered at fires.

Respectfully submitted, EDWARD F. SAUNDERS, Chief of Fire Department

IN MEMORIAM

FRANK A CORCORAN HOSEMAN

ENGINE COMPANY NO. 2
Appointed February 18, 1917
DIED

August 6, 1920

PATRICK F. FINNERTY LADDERMAN

TRUCK COMPANY NO. 3
Appointed July, 1903
DIED
September 1, 1920

ROBERT H. OTLEY HOSEMAN

ENGINE COMPANY NO. 1
Appointed December, 1897
DIED
November 30, 1920

FIRE DEPARTMENT

January 1st, 1921

Commissioner

JOHN F. SALMON

Office, City Hall Residence, 96 Coburn Street

Chief Engineer

EDWARD F. SAUNDERS Office, Palmer St. Engine House Residence, 24 Mt. Washington Street

District Chiefs

JAMES C. SULLIVAN DANIEL H. CROWLEY THOMAS F. SANDERS 250 Rogers Street 26 Marginal Street 168 School Street

Chief's Chauffeurs

JOHN F. AMBROSE JOSEPH L. CROWE 212 Princeton Street 116 Crawford Street

Fire Alarm Operator

THOMAS F. CONWAY
THOMAS McCORMICK, Lineman
ARTHUR E. KING, Lineman

128 Pleasant Street 57 Fourth Street 205 Stackpole Street

Telephone Operators

PHILIP McLAUGHLIN HARRY B. SANDERS WILBUR H. OKE

16 Keene Street 20 Manahan Street 175 Westford Street

LIST OF MEMBERS, GIVING RANK AND RESIDENCE BY COMPANIES

ENGINE COMPANY NO. 1

795 Gorham Street

Thomas W. Collins, Captain, Badge No. 11 145 Andrews St. Philip F. Mooney, Lieutenant, Badge No. 18 203 Moore St. James W. Jantzen, Engineer, Badge No. 16 3 Olive St. Frank G. Collins, Engineer, Badge No. 15 798 Moody St. James O'Hare, Hoseman, Badge No. 13 27 Ellsworth St. W. Henry Kirkpatrick, Hoseman, Badge No. 10 35 London William J. Heelon, Hoseman, Badge No. 14 12 Jennings Pl. James H. Gray, Hoseman, Badge No. 1 23 Ellsworth St. Michael T. McCann, Hoseman, Badge No. 17 28 Bowden St. Daniel F. Murphy, Hoseman, Badge No. 19 80 Anderson St.

ENGINE COMPANY NO. 2

45 Branch Street

Joseph D'Amour, Captain, Badge No. 2

Charles F. Stackpole, Lieutenant, Badge No. 21 25 Grace St. George A. Crawford, Hose., Badge No. 25 47 Highland Ave. Forest E. Alcott, Hóseman, Badge No. 28

Frank Broadbent, Hoseman, Badge No. 27 121 Branch St. Herbert W. Hilliard, Hoseman, Badge No. 22 20 Osgood St. Romuald Bisaillon, Hoseman, Badge No. 26 67 Mammoth Rd Thomas J. Gillick, Hoseman, Badge No. 24

29 Lyon St.

ENGINE COMPANY NO. 3

Palmer Cor. Middle Street

Frank Hoyt, Captain, Badge No. 30 21 Eighth Ave. Elbridge H. Dearth, Capt., Badge No. 31 64 So. Loring St. John J. Rinehardt, Hoseman, Badge No. 39 101 Gates St. Hugh V. Green, Hoseman, Badge No. 35 547 Lakeview Ave. John J. McCarthy, Hoseman, Badge No. 32 150 Fourth Ave. Bartholomew J. Mullen, Hoseman, Badge No. 37 33 Ellis St. Thomas F. Sullivan, Hoseman, Badge No. 34 72 Boylston St. William J. Corbett, Hoseman, Badge No. 3 134 Pleasant St. Walter E. McNally, Hoseman, Badge No. 38 40 Mead St.

ENGINE COMPANY NO. 4

High Street

J. Edward Burns, Captain, Badge No. 4 39 Whitehead Ave. Alfred F. Prescott, Lieutenant, Badge No. 42 565 Wilder St. Jay D. Ismond, Engineer, Badge No. 47 246 Beacon St. William F. Dolan, Hoseman, Badge No. 43 Engine House 31 Ferry Lane George J. Tracy, Hoseman, Badge No. 41 30 Riverside St. Michael E. Egan, Hoseman, Badge No. 48 113 Pleasant St. Francis J. Sullivan, Hose., Badge No. 44 151 Lawrence St. George E. Schofield, Hoseman, Badge No. 40 95 Myrtle St. Moses I. Collins, Engineer, Badge No. 23 20 Coral St. Peter J. Regan, Hoseman, Badge No. 45

ENGINE COMPANY NO. 5

29 Fourth Street

James J. McCafferty, Captain, Badge No. 55 74 Fourth St. Patrick F. Mahoney, Lieutenant, Badge No. 53 18 Fourth St. Alonzo E. Kidder, Driver, Badge No. 5 61 Twelfth St. Charles L. Brown, Engineer, Badge No. 51 Engine House Herman R. Morrison, Eng., Badge No. 29 342 Westford St. Edson S. Barnes, Hoseman, Badge No. 50 68 Beacon St. John C. O'Neil, Hoseman, Badge No. 57 20 Sixth Ave. Frank E. Turner, Hoseman, Badge No. 54 15 Ware St. Hugh A. McLaughlin, Hose., Badge No. 58 15 Stackpole St.

ENGINE COMPANY NO. 6

Fletcher Street

Richard E. Burns, Captain, Badge No. 68 203 Westford St. William M. Barrett, Lieut., Badge No. 61 16 W. Bowers St. John A. Fletcher, Hoseman, Badge No. 6 137 Riverside St. Samuel R. Pendexter, Hose., Badge No. 60 22 W. Bowers St. Thomas F. Maguire, Hoseman, Badge No. 63 14 Varney St. Edgar Perham, Hoseman, Badge No. 69 55 Arlington St. John J. Wholey, Hoseman, Badge No. 66 48 Mt. Vernon St. Edward J. O'Donnell, Hose., Badge No. 64 190 Fletcher St.

HOSE COMPANY NO. 7

490 Central Street

James A. Shea, Captain, Badge No. 70 22 Bleachery St. Thomas H. Welch, Lieutenant, Badge No. 72 93 Chapel St. James H. Tracy, Hoseman, Badge No. 76 147 Concord St. William J. Lane, Hoseman, Badge No. 74 505 Central St. Patrick J. Mooney, Hose., Badge No. 73 207 Mammoth Rd. Bernard F. Connors, Hoseman, Badge No. 75 76 Elm St.

HOSE COMPANY NO. 8

Merrimack, Corner Race Street

George F. Flint, Captain, Badge No. 82 63 Woodward Ave. Gilman S. Alcott, Lieut., Badge No. 88 1194 Middlesex St. George H. McDermott, Hose., Badge No. 86 221 White St. Joseph F. Convery, Hoseman, Badge No. 83 19 Bowers St. Joseph H. Rogers, Hoseman, Badge No. 89 11 Read St. Henry D. Carpentier, Hose., Badge No. 84 30 W. Meadow R. James P. McCready, Hoseman, Badge No. 81 126 Bowers St.

HOSE COMPANY NO. 9

Lincoln Street

Orison A. Knapp, Captain, Badge No. 9 47 Hawthorne St. George H. Chapman, Lieut., Badge No. 92 53 Quebec St. Chaerls A. Rock, Driver, Badge No. 93 673 Chelmsford St. Fred Boynton, Hoseman, Badge No. 98 148 Smith St. Fred O. J. Townsend, Hose., Badge No. 96 14 Somerset St. Hamblin S. Gardner, Hoseman, Badge No. 90 8 Hastings St. George A. Dickey, Hoseman, Badge No. 97 11 Hastings St. William T. Foss, Hoseman, Badge No. 91 37 Pond St.

HOSE COMPANY NO. 10

Mammoth Road

Edwin W. Bartlett, Captain, Badge No. 160 559 Fletcher St. William F. Tighe, Lieutenant, Badge No. 162 203 Cross St. Robert W. Broadbent, Driver, Badge No. 161 11 Fourth Av. Edward F. Farrell, Hoseman, Badge No. 166 12 Third Ave. David Laferriere, Hose., Badge No. 167 100 W. Meadow Rd. Edgar E. Smith, Hoseman, Badge No. 165 206 Wilder St. Andrew B. McLaughlin, Hose., Badge No. 163 79 Willie St. Frank A. Kappler, Hoseman, Badge No. 164 125 London St.

HOSE COMPANY NO. 11

Lawrence Cor. So. Whipple Street

William A. Dolan, Captain, Badge No. 200 56 Crowley St. Edward Jennings, Lieut., Badge No. 201 859 Lawrence St. John D. Finnegan, Driver, Badge No. 203 732 Lawrence St. John N. Emerson, Hoseman, Badge No. 202 27 Carter St. Michael J. O'Connor, Hose., Badge No. 204 101 London St. Peter B. Gray, Hoseman, Badge No. 207 71 Whipple St. James H. Lannon, Hose., Badge No. 209 819 Lawrence St. Timothy J. Dewire, Hoseman, Badge No. 208 315 High St.

HOSE COMPANY NO. 12

West Sixth Street

Charles E. Abare, Captain, Badge No. 220 51 Fifth St. Lewis P. Reed, Lieutenant, Badge No. 221 874 Lakeview Ave Joseph Bernier, Hoseman, Badge No. 223 263 West Sixth St. Edward Landry, Hoseman, Badge No. 226 29 Beaulieu St. William F. Egan, Hoseman, Badge No. 225 69 Lilley Ave. William E. Gorman, Hoseman, Badge No. 224 17 Ellis St.

TRUCK COMPANY NO. 1

Lawrence Street

Timothy Brown, Captain, Badge No. 210 27 So. Whipple St. Joseph M. G. Burns, Lieut., Badge No. 209 543 Rogers St. John J. Lowney, Driver Badge No. 215 361 Lincoln St. Jas. F. McGuinness, Ladder'n, Badge No. 213 119 Agawam Patrick H. O'Loughlin, Ladder'n, Badge No. 216 124 Chapel John J. Donohoe, Ladderman, Badge No. 211 76 Agawam Edward J. Tighe, Ladderman, Badge No. 212 72 Chestnut St George A. Collins, Ladderman, Badge No. 217 145 Andrews Michael J. Gildea, Ladderman, Badge No. 219 72 Swift St. William J. Graham, Ladder'n, Badge No. 138 17 Bleachery

TRUCK COMPANY NO. 2

45 Branch Street

Daniel W. Hilliard, Captain, Badge No. 121 20 Osgood St. George W. Alcott, Lieut., Badge No. 120 202 Westford St. Quincy A. Foster, Driver, Badge No. 126 29 Midland St. William P. Maker, Ladderman, Badge No. 123 12 Flemings Cornelius J. Brosnan, Ladder'n, Badge No. 129 42 2nd Ave. Patrick F. Calnan, Ladderman, Badge No. 125 130 Concord Frank J. Geary, Ladderman, Badge No. 127 16 New St. Peter J. O'Rourke, Ladderman, Badge No. 128 22 Shaffer St. Clarence E. Gillis, Ladderman, Badge No. 122 261 Third St. Francis J. Kelleher, Ladder'n, Badge No. 124 111 Agawam

TRUCK COMPANY NO. 3

Palmer Street

Harold L. Foster, Lieutenant, Badge No. 110 31 Midland St. Philip J. Connor, Driver, Badge No. 112 506 Gorham St. Robert Carland, Ladderman, Badge No. 111 17 Second St. John J. McManmon, Lad'n, Badge No. 114 23 Woodward Av Martin F. McNally, Ladder'n, Badge No. 115 57 So. Whipple John P. Moore, Ladderman, Badge No. 116 1017 Central St. John J. Moran, Jr., Ladder'n, Badge No. 118 43 Anderson St Daniel F. O'Connor, Ladder'n, Badge No. 228 178 Concord George W. Cummings, Ladder'n, Badge No. 95 11 Third Ave Paul A. Johnston, Ladder'n, Badge No. 117 398 Broadway

TRUCK COMPANY NO. 4

West Sixth Street

Herbert A. Merrill, Captain, Badge No. 100 4 Wachusett St. Edward P. Cunningham, Lieut., Badge No. 103 109 Mam. Rd Edward A. Walsh, Ladder'n, Badge No. 106 19 Mt. Vernon William O. Lussier, Ladderman, Badge No. 102 9 Bowers St. Joseph E. Fontaine, Ladder'n, Badge No. 109 280 W. Sixth C. Herbert Cogswell, Lad'n, Badge No. 108 85 Whitney Ave. George J. Hurley, Ladderman, Badge No. 107 25 Read St. Ray N. Symonds, Ladderman, Badge No. 104 519 Broadway John F. Thomas, Ladderman, Badge No. 105 103 Hale St. William F. Riley, Ladderman, Badge No. 101 41 West St.

PROTECTIVE COMPANY NO. 1

Palmer Cor. Middle Street

George A. Campbell, Captain, Badge No. 135 41 School St. James W. Halstead, Lieut., Badge No. 151 115 Warwick St. Joseph J. Malone, Patrol'n, Badge No. 133 427 Lincoln St. Berry M. Simpson, Patrolman, Badge No. 132 259 Methuen William F. Christie, Patrolman, Badge No. 130 155 W. Sixth Willis S. Holt, Patrolman, Badge No. 134 8 Hale St. Hugh F. Finnerty, Patrol'n, Badge No. 218 124 Wannalancit William H. Bamford, Patrolman, Badge No. 136 53 Main St. Stephen J. Callahan, Patrolman, Badge No. 46 47 Walnut William G. Chain, Patrolman, Badge No. 169 45 Coral St. Harry G. Cote, Patrolman, Badge No. 227 Engine House Paul A. Healey, Patrolman, Badge No. 36 25 Butler Ave. Thomas P. McColough, Patrol'n, Badge No. 168 174 Crosby William E. McNiff, Patrolman, Badge No. 80 10 r. 94 High John P. Mealey, Patrolman, Badge No. 229 215 Cross St. John J. Mulligan, Patrolman, Badge No. 38 174 Crosby St. Nap. Grandchamp, Patrol'n, Badge No. 137 12 Arthur Ave. Joseph E. McGann, Patrolman, Badge No. 131 37 Cosgrove Walter F. Powers, Patrolman, Badge No. 80 546 Central St. Edward F. Sullivan, Patrol'n, Badge No. 222 99 Andrews St.

FIRE ALARM TELEGRAPH

LOCATION—Palmer Street Engine House THOMAS F. CONWAY, Operator THOMAS McCORMICK, Lineman ARTHUR E. KING, Lineman

Ten-circuit Automatic Repeater with Storage Battery of 600 cups.

Miles of Wire	113
Signal Boxes	168
Engineers' Gongs	10
Engine House Gongs	
Indicators	
Tape Register	
Bell Strikers	14

Gong and Indicator at Police Station,
Gong in Pumping Station.
Gong on Merrimack Square.
Gong on Tower's Corner.
Gong on Northern Depot.
Gong corner Moody and Aiken Streets.
Gong corner Bridge and First Streets.
Gong corner Andover and Fayette Streets.

The strikers are located as follows: Palmer Street Engine House, Varnum School House, High Street Church, Court House, No. 1 Engine House, No. 6 Engine House, Highland School House, Pawtucketville Engine House, Franklin School House, Lawrence Street Engine House, Cornell Street School House, West Sixth Street Engine House, Sycamore Street School House, Weed Street School House.









Eighteenth Annual Report

OF THE BOARD OF

Park Commissioners

OF THE

CITY OF LOWELL

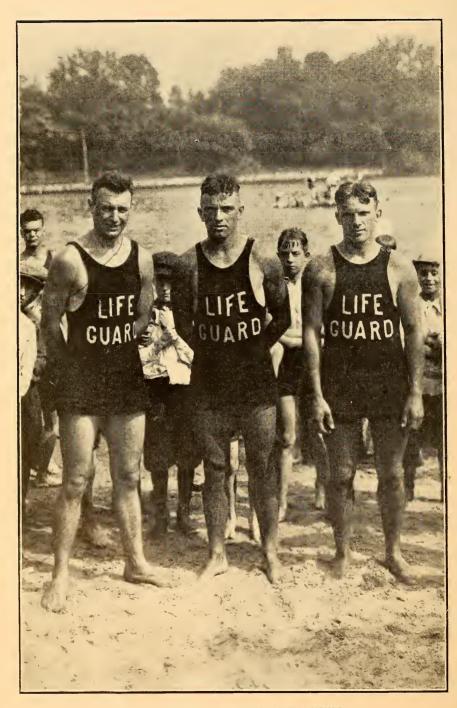


For the Year Ending December 31
1920

PRINTED BY C. I. HOOD CO., LOWELL, MASS.







LIFE GUARDS AT PUBLIC BATH HOUSE

Department of Public Parks

COMMISSIONERS' REPORT

To His Honor the Mayor and the Municipal Council of the City of Lowell, Massachusetts.

As required by Chapter 28, Section 13, of the Revised Laws of Massachusetts, entitled "Public Parks, Playgrounds and the Public Domain," the Board of Park Commissioners of the City of Lowell has the honor to submit their annual report.

CLARENCE M. WEED, Chairman.

Board of Park Commissioners 1920

CLARENCE M. WEED, 1918-1923
THOMAS F. McKAY, 1919-1924
ALEXANDER E. ROUNTREE, 1917-1922
ROBERT F. MARDEN, 1916-1921
HARVEY B. GREENE, 1920-1925

COMMITTEES

Parks: Mr. Greene, Mr. Marden, Mr. Weed
Playgrounds: Mr. Marden, Mr. Greene, Mr. Weed
Trees: Mr. Rountree, Mr. McKay, Mr. Greene
Legislation: Mr. McKay, Mr. Rountree, Mr. Marden

OFFICERS

CLARENCE M. WEED

Secretary

ALEXANDER E. ROUNTREE

Superintendent of Parks and Playgrounds
JOHN WOODBURY KERNAN

Financial Report

the state of the s		
PARKS		
Appropriation		3,000.00
Credits for year 1920	5	,042.05
	\$43	,042.05
Expended for Labor \$27,153.87		,
Expended for Materials and Supplies 15,878.16		
	\$43	,032.03
Balance	\$	10.02
SPECIAL APPROPRIATIONS		
APPROPRIATION FOR ACQUIRING LAND FOR	P	UBLIC
PARK SOUTHERLY SIDE OF RIVERSIDE STR	EE	T
Appropriation	\$12	2,000.00
Credit		320.00
Total Appropriation	\$12	2,320.00
Expended for Material and Supplies \$12,320.00		
	\$12	2,320.00
Balance	\$	0.00
NEW BATH HOUSE		
Balance, 1920	\$	252.43
Transferred from New Comfort Station Appro.		24.17
Total Appropriation	\$	276.60
Expended for Construction \$ 276.60		
	\$	276.60
Balance	\$	0.00
NEW COMFORT STATION	Φ. (
Appropriation	क्ष	,000.00
Transferred to New Bath House Appropriation 24.17		
	\$ 8	3,874.40
	\$	125.60
Set aside account of New Comfort Station.	_	125.60
Balance	\$	0.00

BALANCE SHEET—PARKS

MAINTENANCE

Total \$ 242.10	288.48	589.55	81.00	75.70	153.22	34.31	52.31	15.74	29.80	41.06	23.05	56.25	56.82	15.18	2,306.81	14.62	7.87	155.30	5,900.93	20.82	2.81
Improvement	117.49		. 31.00												684.87			140.00	200.00		
Material		310.15		10.00	5.25														1,307.41		
Labor \$ 242.10		279.40	20.00	65.70	147.97	34.31	52.31	15.74	29.80	41.06	23.05	56.25	56.82	15.18	1,621.94	14.62	7.87	15.30	4,093.52	20.82	2.81
Name Belvidere Park	Cardinal O'Connell Parkway	City Hall and Mem. Bldg. Grounds	Coburn Park	Colonial Ave. Riverbank	Fair Grounds	Franklin School	Harris Oval	Hovey Square	Lincoln Square	Lucy Larcom Park	Lincoln Playground	Mt. Vernon	Monument Square	Mansur Square	North Common	Penniman Square	Princeton Square	Raven Road Park	Rogers Fort Hill Park	Riverside Park	Parker-Spalding Park



WATCHING OPEN-AIR "MOVIES" AT SOUTH COMMON

Total	2,692.71	4,116.90	217.51	30.38	128.76	48.36	2,046.25	39.93	1,822.54	4,513.56	3,238.45	462.92	892.39	73.30	1,725.00	3,420.99	1,793.34	1,783.00	3,822.01	\$43,032.03
Improvement	1,597.56	876.48					1,841.08		1,822.54						1,725.00	3,252.65			300.00	\$12,888.67
Material	95.15				103.00		179.58			446.83	540.25	323.46	892.39	73.30	heg.		1,565.34		105.94	\$5,958.05
Labor	1,000.00	3,240.42	217.51	30.38	25.76	48.36	25.59	39.93		4,066.73	2,698.20	139.46				168.34	228.00	1,783.00	3,416.07	\$24,185.31
Name	Shedd Park	South Common	Tyler Park	Park at Cor. Nesmith & Rogers Sts	Varnum Ave. Riverbank	Varnum Park	Varnum Ave. Parkway	Water Works Square	New Comfort Station	Office	Playgrounds	Stable	Care of Auto and Truck	Deer at Fort Hill Park	New Auto	Bath House	Moving Pictures	Attendants at Bath House	Trees	

PARK AREAS AND THEIR VALUATION

Belvidere Park	1.77	Acres	\$ 20,000
Boulevard Park	6.031	"	5,255
Cardinal O'Connell Park	0.114	"	25,844
City Hall and Memorial Grounds	0.50	"	65,700
Coburn Square	0.252	66	1,000
Colonial Avenue Riverbank	3.50	"	2,000
Cor. Rogers and Nesmith Sts.	0.012	66	622
Fayette St. Playground	0.170	66	2,000
Franklin Square	0.058	66	1,500
Glacial Oval	0.000		100
Harris Oval	0.12	6.6	366
Hillside Park	0.061	66	80
Hovey Square	0.010	66	50
Hutchinson Square	0.037	"	150
Lenox Square	0.181	66	1,500
Lincoln Playground	1.525	4.6	6,000
Lincoln Square	0.016	6.6	200
*Lucy Larcom Park	0.50	"	21,970
Mansur Square	0.050	"	150
Middlesex Square	0.034	66	200
Monument Square	0.092	66	15,000
Mt. Vernon Park	0.50	66	4,350
North Common	11.39	66	100,000
Parker-Spalding Park	0.043	66	60
Pawtucket St. Park at Northern Cana	1 0.911	"	6,620
Penniman Square	0.051	6.6	450
Princeton Square	0.028	66	150
Raven Road Park	0.083	"	180
Riverside Park	0.105	6.6	184
Rogers Fort Hill Park	34.40	"	150,000
Shedd Playground	56.00	66	50,000
South Common	22.48	"	200,000
Tyler Park	1.81	66	8,000
Varnum Avenue Parkway	1.018	"	5,150
Varnum Park	0.136	"	6,000
Water Works Square	0.047	"	500
Wyman Park	5.22	4.6	2,088
Total	149.255	"	\$703,419

^{*}Held by the Chairman of the Park Commission and the Mayor as Trustees, not under the direct charge of the Park Commission.





CHILDREN OF THE HOWARD STREET PLAYGROUND



GAMES ON THE HOWARD STREET PLAYGROUND

Report of the Board of Park Commissioners For the Year 1920

The Board of Park Commissioners presents, herewith, its report for the year 1920:

In many respects this has been one of the most important years in the development of the park and recreation systems of Lowell that we have known. It has seen for the first time the use of the Municipal Bath House to its full extent and it has witnessed a very important advance in efficiency in the system of playgrounds. It has also witnessed the completion of the Comfort Station on the South Common and the acquisition and improvement of a considerable part of the Pawtucketville parkway.

Almost equally gratifying has been the greatly increased public interest shown in the recreational features of our city. This has been evidenced by the activities of the Chamber of Commerce and Rotary Club in assisting in the operation of street playgrounds as well as in the continuous interest of the Committee on Parks and Playgrounds of the Chamber of Commerce and the formation of an important committee on Playground Sites

in Lowell Community Service. This assistance from so many public-spirited citizens is deeply appreciated by the members of the Board and the latter feel that the work in the city will progress more rapidly because of a continuation of such interest.

During the year several projects relating to the future development of the park and playground system of the city have received constantly increasing attention. It is evident that the great majority of our citizens emphatically desire that the First Street Oval should be purchased and made a permanent playground near the heart of the city. It is also true that an increasing number of tax payers are seeing the necessity for the purchase of Washington Park before it becomes built up as a tenement district. This piece of land is in the heart of one of the most congested areas and it is the only public breathing space for the future in that district. It would be a calamity to the people of the vicinity should it be lost for park purposes and instead add to the congestion already existing. For many years there has been an insistent demand that the great district of the Highlands should have a playground and breathing space. This region geographically includes nearly one-half of the city, and there is practically no playground in the whole The Board earnestly recommends the purchase of a piece of land along B Street which is now available and which would furnish a splendid opportunity for a ball field and playground to a large proportion of the children and youth of the city.

All three of these projects are so important that the Board finds it difficult to choose between them, and it rec-

ommends that bonds be issued for the purchase of all three at the earliest possible moment.

The Municipal Bath House has been one of the most successful recreation projects which the city has ever undertaken. The patronage has been so large that the facilities have been taxed to their utmost, and on many occasions found far from sufficient. Consequently, the Board recommends that the men's end be considerably extended in order to accommodate one hundred more locker-compartments as well as the erection of two small inclosures for the use of boys on one side and girls on the other. The latter is a suggestion from His Honor, Mayor Perry D. Thompson, in the wisdom of which the Board heartily concurs.

In last year's report we expressed the hope that the co-operation of the School Department could be brought about so that young people in the playgrounds should be offered work in Manual Training and Domestic Arts part of the time. This project was very successfully carried out during the summer in the Greenhalge School and the move proved so useful that it is hoped that the work may be extended the coming year into other school houses.

The city has been deeply indebted to National Community Service for the very efficient assistance of Miss Louise French, playground expert, who took charge of the playgrounds during the earlier weeks of the summer, and who was furnished to the city without cost by National headquarters. She proved herself an enthusiastic and inspiring leader, and she showed to the playground teachers new possibilities in their work. We also wish to

express our obligations for similar assistance to Mrs. Julian B. Keyes.

The Board also wishes to express its renewed appreciation of the splendid work done by the superintendent, playground supervisors and the other employees of the Department in obtaining results by their constant and faithful service.

Respectfully submitted,

CLARENCE M. WEED, Chairman.



EARLY SPRINGTIME AT BRIDGEHEAD, PAWTUCKETVILLE SQUARE

Superintendent's Report

To the Board of Park Commissioners.

Gentlemen:—

I herewith most respectfully submit my annual report of the work done under your direction in the park system for the year ending December 31, 1920.

To me it has been a very busy year, and it is with some satisfaction and pride that I point to the fact that practically all the work outlined by your honorable Board has been accomplished.

Economy and close supervision of maintenance costs is always practised, but these costs are increasing each year, owing to the added facilities for use and enjoyment, and the very much greater number of people who resort to our parks for rest and recreation.

Parks are an essential feature of the modern city, and not only parks but a park system; not only a park system, but a system that studies the beauty of surroundings, the health of the people, the plays of the young, the proportions of recreation space, the changes of the seasons, the charm of landscape, the grace of architecture, the love and lore of nature, the lure of the wild and the beck of culture.

The park system of a modern city is not only a series of grounds dedicated to park purposes but a related and connected plan in which all the members are articulated into one unit. The park system of a modern city not only concerns itself that every neighborhood shall have its appropriate ornaments of lawns and shrubbery and glimpses of loveliness; but also that all these elements shall compose parts of one harmonious whole. The park system of a modern city not only aims at beauty, but strives to express the concept of the soul of the city. The parks of a modern city bear witness that its people are members of one great family. They are the concrete expression of civic consciousness in its highest visible form.

The privilege therefore of discharging this trust rests not only on those who have been appointed to administer the funds and enlarge and beautify the property, but involves as well, the zealous co-operation of every resident.

In taking account of the progress that has been made towards this complete system, it is a pleasure to record the fulness of such co-operation, by liberal meeting of views, by the courtesies of those engaged in other branches of the city government, and by the patriotic impulse of all the people, young and old, to care for their part as their own so that with the fewest possible restrictions, they may be enjoyed by all.

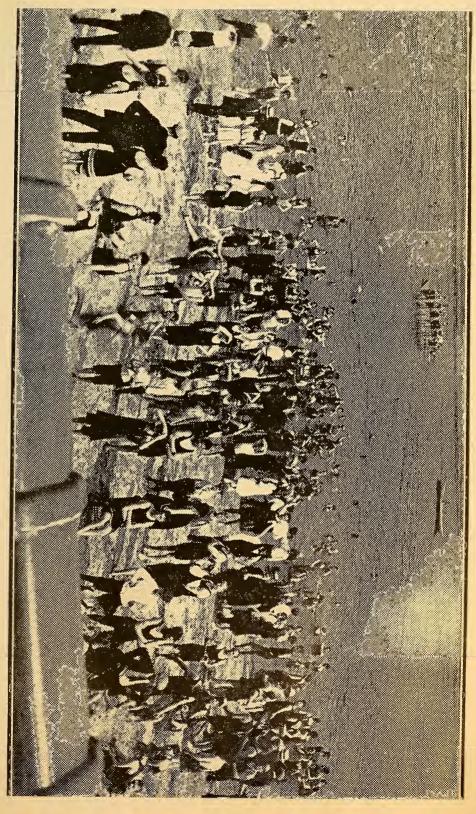
It should be our purpose to foster this spirit in every way—for when every child is imbued with the thought that he is to share in preserving order, to keep intact as something sacred, the things that belong to us all, a lesson in citizenship has been thoroughly learned that goes to the very heart of preserving and enriching our institutions of self-government.

During the winter months we gave our attention to the upkeep of Shedd Pond for skating which once more proved a source of attraction for the children of nearly every quarter of the city. The sport was not of as long duration as in previous years owing to the severity of the weather, but did give an opportunity (which was perfectly safe) for healthy out-door exercise.

Early in the year the Board called for bidders for a new Comfort Station on the South Common, which has been a crying need for a number of years, and after a canvas of same awarded the job to Mr. Frederick H. Meloy for \$7895, and the plumbing to Farrell & Conaton Many difficulties were encountered by the for \$1645. contractors in the construction of the station, not only in finding a suitable foundation at the spot selected, but also in the prevailing building conditions. These, to our dismay, prevented us from opening the station the past summer as was intended. However, it is now finally completed and we look forward to opening it in the spring, and are confident it will improve conditions about the South Common.

In February many residents of Pawtucketville appeared before the Board declaring that their section of the city had been neglected for many years in the march of public improvements, so much so that they had no hesitancy in coming forward and urging that the park area at the end of the bridge be made presentable, and a proper spot selected for the locating of a proposed me-

morial to Pawtucketville men and women who served in the great World War. The Board assured them that they had not been dormant in the matter, but on the other hand were very much awake, and that during the building of the new bridge they had made a study of the adjacent riverbank for parkway development. Plans were made in 1917 calling for a general treatment of the riverbank from Moody Street to the entrance of the boulevard. Failure to secure the necessary funds was the only reason offered for the delay in going ahead. was finally agreed at the conference that the Board ask His Honor the Mayor, and Municipal Council for a hearing on the project. This was accordingly done. March 23 was set as the date, and I, together with the Board, appeared before the Council. We were supplemented by a number of citizens from Pawtucketville and all stressed the importance of the work. A plan was presented, approved by the Board, as well as an estimate calling for the expenditure of \$50,000 for the development of the riverbank from Moody Street to the entrance of the boulevard which entailed the razing of several old dilapidated buildings on Riverside Street. The Municipal Council finally decreed that the finances of the city would not permit all of the work to be done this year, but did, during the summer, appropriate \$12,000 by a bond issue, for a beginning. Work was started at once on the project, and as \$4000 of this amount was utilized in seizing one piece of property, the Board spent approximately \$2000 from their regular funds, so that a respectable showing might be made for a few hundred feet each side of the bridgehead. Favorable comment has been heard





on the work thus far executed, and it is hoped that an additional appropriation may be made the coming year to carry it on.

Our new Public Bath House on the boulevard was opened June 16 and it proved to be a very popular place. Many times during the summer it was taxed to much more than its capacity. The lockers were built large enough for two persons, but during the rush hours they were often found to contain five and six. The bathers were not only quite willing, but anxious, to crowd in in this manner rather than to be denied the opportunity of enjoying a plunge in the cooling water. The bath house was operated with six attendants during the summer, and our receipts nearly equalled the cost of main-The river side of the Bath House was improved quite materially by spreading a layer of coarse sand six inches deep from the Bath House to the water's edge giving the appearance of a natural beach. our experience last season, the wings of the Bath House should be extended, thereby relieving the congestion and affording the patrons more privacy and comfort. would be especially true when hot days bring hundreds of people to the Bath House at the same time.

Our customary July 4th celebration which is in itself a novelty in this part of New England, was staged again last summer on the South Common and brought forth venders for many miles around as well as the usual number of merry-go-rounds. Many of our town's people opened booths of one kind or another, and all seemed to do a thriving business. The general order on the midway was good. The department's receipts from these

venders amounted to \$2307. In the way of athletic games the Board staged a 10-mile road race around the North Common in the afternoon. This contest was a handican affair and attracted several thousand spectators. In the evening, His Honor the Mayor, provided a band concert as well as a magnificent display of fireworks. This was enjoyed by thousands of people and very favorably received. The evening was perfect for a pyrotechnical display, the hill at the southwesterly corner being the setting, and looking from a vantage point over the Common one could see a moving mass of human. ity and firmly believe that every one in Lowell was pres-Because of the great throng of people who frequented the Common during the Fourth, His Honor the Mayor provided two emergency tents on the Summer Street side, with nurses in attendance, who more than proved their worth. Fifty cases of accidents and illness were given first aid treatment, and the tents served also as a haven for lost children who were picked up in various parts of the Common having become separated from their parents.

Late in the fall, work was started on a few tennis courts at Fort Hill Park, the surroundings of which were to be properly landscaped by shrubbery. The Board felt they were taking a step in the right direction, both in introducing the game and the selection of the spot. As a result, the neighbors of that locality petitioned the Board for a hearing, as they desired to protest. A hearing was duly granted. After a thorough discussion of the case the Board decided to abandon the site chosen, and selected a spot at Shedd Park near the corner of Rogers and

Boylston Streets. Rough grading has been done and we expect to complete the work in the early spring.

MOVING PICTURES

Municipal movies proved once more a popular form of entertainment during the summer and we gave three shows a week for thirteen weeks. Some evenings the pictures were witnessed by as many as ten thousand Dramas, scenes of travel, comedies, intermingled with educational films and topics of general interest were presented at each performance, lasting about two hours. The pictures were obtained from the Community Motion Picture Bureau and were shown Tuesdays at the South Common, Wednesdays at the North Comon, and Thursdays at the Lawrence Mfg. Co. Playground. We were extremely fortunate in the weather conditions, having missed but one night by reason of rain. A graphoscope machine was purchased, instead of renting one as in the past. It is light weight, being more easily handled, and thus far we have encountered no difficulty.

CHRISTMAS TREE

Our Yuletide observance this year followed along the lines of last. A huge spruce tree sixty feet in height, was brought in from the country and set up in front of City Hall. The tree was lighted Christmas Eve as soon as darkness stole over the city, and was all aglow with many different colored lights. The windows of the Municipal Building beamed with hundreds of candles, and beneath each window hung a wreath of laurel. In connection with this municipal observance the Committee on Music of Lowell Community Service of which Miss Inez Field Damon is Chairman, had arranged with many choirs and other groups of singers to have Christmas carols sung throughout the city. This carol singing began about ten o'clock and at 11.30 the singers came to the Municipal Christmas Tree where they assisted the singing of carols along with some five thousand others under the leadership of Albert Edmund Brown, assisted by the U. S. Cartridge Shop Band. His Honor Mayor Perry D. Thompson, extended Christmas Greetings to all and the festivities came to a close. The tree was kept lighted from Christmas Eve until the New Year, and won the admiration of all. On New Year Eve at 5 p. m. the school children gathered about the tree and sang carols under the leadership of Mr. Fred. O. Blunt, with a band His Honor the Mayor once again exaccompanying. tended the greetings of the season to the school children and all departed very happy, with good resolutions for the coming year.

PLAYGROUNDS

Over 30 years ago the playgrounds movement started in America, but the last ten years has seen its greatest advancement. At first the Playgrounds were used chiefly during vacations, but now the demand for them is necessitating their prolonged use. In many cities because of the extra hours of leisure owing to the shortening hours of labor, they are operated all the year round, and the public school houses are thrown open evenings as recreation centres.



"SPORTS," CLOSING DAY EXERCISES, SUMMER PLAYGROUNDS



"SPORTS," CLOSING DAY EXERCISES, SUMMER PLAYGROUNDS



As the movement grows it usually extends the scope of its activities to include the play and recreation of the whole community. Modern cities are learning that it does not pay to have our recreations all commercialized and run to make money instead of better citizens.

The success of a playground depends largely on two factors, the facilities and equipment, and the supervision. Most of our playgrounds have very limited facilities and equipment, but this disadvantage is somewhat overshadowed by efficient leadership and direction. A playground is what those in charge make it, and the degree of service rendered depends upon the amount of energy, initiative and interest that the employees put into their work.

The earnest co-operation of the employees and the effective work of the supervisors in organizing teams, teaching gymnastics, athletics and games, and promoting play in all its aspects, sometimes under discouraging circumstances, has added materially to the usefulness of the playgrounds. The police officers on the beat of the respective grounds also render a valuable service in establishing a feeling of safety and confidence, and in maintaining proper order and discipline.

One of the most effective means of stimulating interest in the activities of the playgrounds has been the awarding of what is known as the Athletic Badge Test which was tried out for the first time last summer. Small bronze buttons bearing three different designs marking three different degrees in excellence for performing three different standards of tests in athletics were awarded.

The first test was in recognition of a child's ability to perform certain prescribed athletic feats in a certain time or distance, a standard being set. If they could perform the same test in better time or distance, a standard being set, they were entitled to a bronze button of the second class; and if they could do still better with still a higher standard being set, they were awarded a button of the third class.

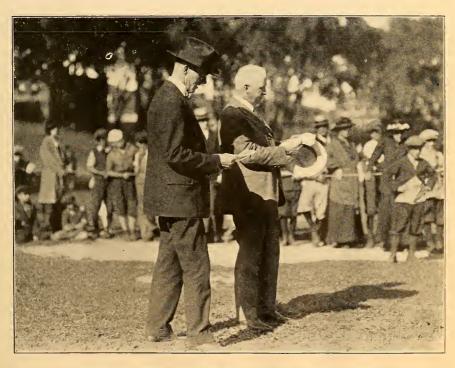
Although the buttons were inexpensive, they were hard to secure, and every child who was fortunate enough to win one was extremely proud of their accomplishment, and most of those who failed to qualify worked diligently preparing for the next opportunity to secure one. The different tests were held throughout the summer and the buttons were formally presented at the closing day exercises by the Chairman of the Board.

Our five playgrounds opened on July 7, and continued for a period of eight weeks. It is a pleasure to report that the school department co-operated with us during the summer, furnishing two instructors, one in industrial work for the boys, and one in cooking for the girls at the Greenhalge School in West Centralville. Excellent results were obtained, and commendation is due them for their work. It is confidently hoped that this phase of our work may be extended to other school buildings adjacent to our grounds during this coming summer, so that the children of all sections of the city may have an equal opportunity.

We were extremely fortunate the past summer in having an expert in organized play assigned to us through the co-operation of Lowell Community Service,



CLOSING DAY EXERCISES, SUMMER PLAYGROUNDS



CHAIRMAN WEED PRESENTING ATHLETIC TEST BADGES, CLOSING DAY EXERCISES, SUMMER PLAYGROUNDS



free of cost, in the person of Miss Louise E. French. The supervisors were called together each week and discussed problems which arose on their respective grounds, and then they were given a talk by Miss French on modern methods of play. During the week Miss French visited the different grounds and aided and assisted the supervisors wherever she could.

The usual amount of industrial work in the line of sewing was again taken up during the season and filled a gap for those children who didn't care about play. They busied themselves by making many useful articles for their home, and in many cases made wearing apparel for themselves when school opened. We are indebted to the mill agents of the city who responded generously by donations of cloth to carry on this work.

On Saturday afternoons a group of young ladies from Lowell Community Service, conducted a series of picnics, out in the country, for the playground children of our several different grounds. The children were transported by auto trucks and were given an opportunity to see a real up-to-date farm, as well as to roam about to enjoy nature in all its loveliness. They also took part in games, dances and community singing;—closing with a little spread in the form of ice cream and cake. The Community Service have our sincere thanks for their assistance, which proved very helpful to our playground work, and which was enjoyed immensely by the children themselves.

A new departure was undertaken this past summer in conjunction with the Chamber of Commerce, in operating street playgrounds during the evening until dusk. It was financed by the Chamber of Commerce, and as problems are ever present, I gave my time that the children might have every pleasure in this new field of recreation, and at the same time be properly supervised. At first about six different congested streets were selected, but because of protest filed against some, only two were used, namely, the Charles Street and Howard Street. Streets were chosen because the regular day playgrounds were occupied by grown-ups who had toiled all day in the mills and were in need of exercise. It was thought best to keep the children's time occupied by wholesome organized play, thereby keeping them out of mischief, the new davlight law having given us an added hour of light each day. Other communities thought so well of it, that we had many inquiries as to our method and results. They certainly proved a success, even beyond our expectations.

Our closing exercises of the playgrounds were held on the South Common on September 2 with Mrs. Julian B. Keyes in charge. The co-operation between the different grounds stood out in evidence, as the program was excellent. The children worked as one group and their difficult dances gave pleasing results. In addition to their dances a simple bit of pageantry was given which met the hearty approval of all. The boys' program of sports which followed, stirred the friends of the competitors to a high pitch of enthusiasm. The final assembling of the various playgrounds on the field led to the presentation of the badges by Chairman Weed of the Board of Park Commissioners, to the girls and boys who had successfully passed the athletic tests of the American Play-

ground Association. The program closed with the salute to the flag, and singing of "The Star Spangled Banner."

STREET TREES

Our tree work the past year covered trimming trees, which means the removal of all dead and unsightly wood, all low overhanging branches which interfered with the proper use of streets and sidewalks, and those branches which were interfered with by the wire of the public service corporations. It covered the removal of dead, dangerous, and otherwise undesirable trees. Many trees of the latter class were removed where assurance was given that more desirable species would be planted. It also covered the planting of trees.

One or two improvement associations and still a larger number of citizens asked for advice and suggestions regarding the proper care and maintenance of the trees and shrubs growing in their particular locality which was always willingly and cheerfully given.

Many times during the year applicants desirous of having tree work done in front of their residences, would become a little restless because our tree gang would not show up the next day on the work asked for. Our policy has been to do the work in the order in which requests have been filed in our office, with the exception of an emergency job. We might, however, have three or four calls on one street, when these would be done the same day. There were weeks we had as many as thirty requests, some of which would take a good part of a day to complete. Hence one may see how progress at times seemed slow.

During the year we have trimmed over three hundred and twelve. To offset this we have planted one hundred and sixty-five Young Norway Maples in different sections of the city, that we may not be on the losing end of the ledger at the end of the year. For the most part, streets were selected that were practically nude of trees. A few were planted on the South Common and at Fort Hill Park. Tree guards were placed about those we thought would have the hardest time to thrive, because of the molestation of mischievous persons.

RECOMMENDATIONS

I respectfully recommend that the wings of the new public bath house on the boulevard be extended twenty feet on each end and additional locker accommodations built therein.

That the new parkway started last year at the bridgehead in Pawtucketville along the riverbank be continued insofar as funds will permit.

That an athletic field in the Highlands be purchased at once, as it may be obtained more reasonably now than later. Only a few desirable sites remain, and if building continues in the next few years as it has in the past, no land will be available.

That Washington Park be purchased as it will accommodate people in the Lower Highlands, and alleviate a very congested section.

That the policy of planting a few hundred street trees be continued each year so that our numbers will not be impaired in years to come. GAMES AT CHARLES STREET PLAYGROUND



That an iron fence of an ornamental design be installed around the City Hall grounds, in place of the wire one now in use. A fence of some kind is an absolute necessity, as without one, we would have neither grass nor shrubs. I feel that the style of fence should be in keeping with the building and grounds.

That the State authorities be urged to make some definite move toward the completion of the First Street Boulevard, as not until then can anything tangible be done on the proposed oval which we confidently hope will serve as a stadium for all athletic games, almost in the heart of the city.

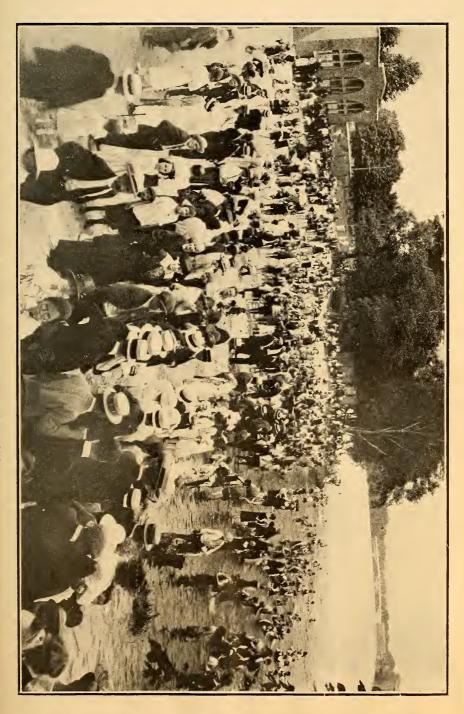
So many improvements might be proposed to add beauty and utility to our existing parks, so many projects of park and driveway acquisition and improvement might be outlined, that it is rather difficult to refrain from recommending many things that are impossible to accomplish on account of existing financial conditions. However, recognizing these conditions, only those changes and improvements are recommended in the foregoing paragraph which are really necessary, and that can be accomplished, by a loan order of approximately \$50,000, and by which our annual appropriation for maintenance will not be impaired.

In conclusion permit me to thank the Board for its support given during the year, employees of the department for their faithfulness, the city officials, the playground teachers, the newspapers, and the public in general for the many kind favors rendered; and the spirit of co-operation that has been shown the past year.

Respectfully submitted,
JOHN WOODBURY KERNAN.

Engineer and Superintendent.











SEVENTY-SIXTH ANNUAL REPORT

OF THE

LOWELL CITY LIBRARY

THIRTY-FIRST REPORT

OF THE

LIBRARY TRUSTEES

OF THE CITY OF LOWELL MASSACHUSETTS

FOR THE YEAR NINETEEN HUNDRED TWENTY



KILBURN PRINTING COMPANY

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LUETTA MARIN

REPORT OF THE TRUSTEES FOR 1920

To the Honorable, the Municipal Council of Lowell:

Gentlemen:—The Trustees of the City Library herewith present their annual report for the year 1920.

FINANCIAL STATEMENT

Receipts

Appropriation by Municipal Council		
Fines, etc.	817.05	
Transfers from John Davis Fund	3,967.01	
		\$28,784.06
Expenditures		
Salaries	\$17,931.74	
Lighting	876.98	
Binding	1,304.19	
Periodicals	805.55	
Books	1,939.83	
Sundries—Printing \$396.00		
Water Tax 47.50		
Express, etc		
Supplies		
Postage 14.09		
Repairs 152.95		
Miscellaneous 248.70		
	\$ 1,465.25	
Delivery Stations	493.51	
Expenses of Children's Room, Sunday		
opening and Books, etc., charged to		
Davis Fund	3,967.01	
		\$28,784.06

IOHN DAVIS FUND

Income for 1920

Cash on hand at last report	\$ 4,484.75	
Interest and dividend earnings on invest-		
ments and loans	4,648.52	
Rebate on Taxes	92.96	
		\$ 9,226.23

Expenditures

Expenses of Children's Room	\$ 690.26	
Expenses of Sunday opening	438.80	
Books purchased for the Library	2,837.95	
Liberty Loan Coupon Bond purchased		
(2d 4½ \$6000)	5,258.25	≯
Cash on hand Jan. 1, 1921	.97	
		\$ 9,226.23

\$1,656.00

JOHN DAVIS FUND

List of Securities

Bonds

Name		Rate of	Par
Boston & Maine R. R. 1926 4 % 10,000.00	Name Due	Interest	Value
Boston & Maine R. R. 1929 4½% 5,000.00 N. Y., N. H. & H. R. R. 1954 4 % 10,000.00 Illinois Central R. R. 1952 3½% 10,000.00 Boston & Albany R. R. 1952 3½% 4,000.00 Atch., Top. & Sante Fe 1995 4 % 1,000.00 Hartford, Conn. 1923 4½% 10,000.00 City of Fall River 1926 4 % 4,000.00 City of Baltimore 1958 4 % 5,000.00 City of Waterbury, Conn. 1950 4¼% 4,000.00 Liberty Loan Coupon Bond 1938 4¼% 10,000.00 Liberty Loan Coupon Bond 2d 1942 4¼% 6,000.00 Kailroad Stock Price Per Share 38.00 Shares Name of Road Share 5,000.00 Railroad Stock Price Per \$1,004.50 1 B and M. Preferred Stock (Class C) 38 38.00 39 Boston & Albany 126 4,914.00 1 Nashua & Lowell 125 125.00 Manufacturing Stock Price Per Share Amount \$6,142.50 \$6,142.50 Manufacturing Stock Name of Company \$1,206.00 Miscellaneous Stock 132 \$1,056.00 Miscellaneous Stock 12 American Tel. & Tel. Co. 100½ \$1,206.00 10,000.00 10,000.00 10,000.00 10,000.00 10,000.00 10			The second secon
N. Y., N. H. & H. R. R. 1954 4 % 10,000.00 Illinois Central R. R. 1952 3½% 10,000.00 Boston & Albany R. R. 1952 3½% 4,000.00 Atch., Top. & Sante Fe 1995 4 % 1,000.00 Hartford, Conn. 1923 4½% 10,000.00 City of Fall River 1926 4 % 4,000.00 City of Baltimore 1958 4 % 5,000.00 City of Waterbury, Conn. 1950 4¼% 4,000.00 Liberty Loan Coupon Bond 1938 4¼% 10,000.00 Liberty Loan Coupon Bond 2d 1942 4¼% 6,000.00 Railroad Stock No. Shares Name of Road Share Share 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 8 Amount 1 1 8 Amount 1 1 8 Amount 1 1 8 Amount 1 1 8 Amount 1 1 8 Amount 1 1 8 Amount 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,	
Illinois Central R. R.			
Boston & Albany R. R.		,	
Atch., Top. & Sante Fe 1995 4 % 1,000.00 Hartford, Conn. 1923 4½% 10,000.00 City of Fall River 1926 4 % 4,000.00 City of Baltimore 1958 4 % 5,000.00 City of Waterbury, Conn. 1950 4¼% 4,000.00 Liberty Loan Coupon Bond 1938 4¼% 10,000.00 Liberty Loan Coupon Bond 2d 1942 4¼% 6,000.00 Railroad Stock No. Shares Name of Road Share Share 41 Boston & Maine (Common) 24½ \$1,004.50 1 B and M. Preferred Stock (Class C) 38 38.00 39 Boston & Albany 126 4,914.00 1 Nashua & Lowell 125 125.00 Manufacturing Stock No. Shares Name of Company Share Share 125.00 Miscellaneous Stock 12 American Tel. & Tel. Co. 100½ \$1,206.00	Illinois Central R. R	3½%	10,000.00
Hartford, Conn.	Boston & Albany R. R1952	31/2%	4,000.00
Hartford, Conn.	Atch., Top. & Sante Fe	4 %	1,000.00
City of Baltimore		41/2%	10,000.00
City of Waterbury, Conn	City of Fall River1926	4 %	4,000.00
City of Waterbury, Conn	City of Baltimore1958	4 %	5,000.00
Liberty Loan Coupon Bond 2d1942	City of Waterbury, Conn1950	41/4%	4,000.00
Sp0,000.00 Sp0,000.00 Railroad Stock Price Per Share Amount \$1,004.50	Liberty Loan Coupon Bond	41/4%	10,000.00
Railroad Stock Price Per Shares Name of Road Shares Sh	Liberty Loan Coupon Bond 2d1942	41/4%	6,000.00
Railroad Stock Price Per Shares Name of Road Shares Sh			
No. Shares Name of Road Price Per Share Amount 41 Boston & Maine (Common) 24½ \$1,004.50 1 B and M. Preferred Stock (Class C) 38 38.00 39 Boston & Albany 126 4,914.00 1 Nashua & Lowell			\$90,000.00
Name of Road Share Amount \$1,004.50	Railroad Stock		
Boston & Maine (Common) 24½ \$1,004.50 B and M. Preferred Stock (Class C)			
1 B and M. Preferred Stock (Class C)38 38.00 39 Boston & Albany			
39 Boston & Albany			
1 Nashua & Lowell			
Shares Name of Company Share Share Share Lowell Bleachery 132 \$1,056.00			
Manufacturing Stock No. Shares Name of Company Share 8 Lowell Bleachery 132 \$1,056.00 Miscellaneous Stock 12 American Tel. & Tel. Co. 100½ \$1,206.00	1 Nashua & Lowell	143	125.00
Manufacturing Stock No. Shares Name of Company Share 8 Lowell Bleachery 132 \$1,056.00 Miscellaneous Stock 12 American Tel. & Tel. Co. 100½ \$1,206.00		•	\$6.142.50
No. Shares Name of Company Share Share Share Lowell Bleachery 132 \$1,056.00 Miscellaneous Stock 12 American Tel. & Tel. Co. 100½ \$1,206.00	M C · · · · · · ·		φ0,142.30
Shares Name of Company Share 4 Shores 132 Sh	_		
Miscellaneous Stock 12 American Tel. & Tel. Co		Price Per	Amaunt
Miscellaneous Stock 12 American Tel. & Tel. Co	8 Lowell Bleachery	132	
12 American Tel. & Tel. Co			7=,700,00
			\$1,206.00

Bank Stocks

2.7				D 1 D	
No. Shares	Ban	1-		Price Per Share	Amount
			11		
	pleton Nat. I				\$1,080.00
3 O1	d Lowell Nat	. Bank, Lo	well	110	330.00
2 W:	amesit Nat. B	Bank, Lowe	:11	105	210.00
11 Ur	nion Nat. Ban	k, Lowell		225	2,475.00
10 Fin	st Nat. Bank	of West N	lewton	170	1,700.00
					\$5,795.00
	:	Savings Ba	ank Book		
C . 1 C	Ban			Book No.	Amount
Central S	avings Bank		•••••	35073	\$ 221.83
		Mortgag	e Note		^
А. Н					\$2,000.00
	Summary of	f Investme	ents and Ca	sh Assets	3
	Val	Mar. 8, 1920	Val. Mar. 1, 1921		
Registered	Bonds	\$84,000.00	\$90,000.00	\$6,000.00	
	cocks	6,157.50	6,142.50		\$ 15.00
	ring Stocks	1,240.00	1,056.00		184.00
	ous Stocks	1,644.00	1,656.00	12.00	
		5,671.00	5,795.00	124.00	
_	nk Book Notes	212.19 2,000.00	221.83 2,000.00	9.64	
	nk	4,805.75	829,47		3.976.28
	-				
	\$	105,729.44	\$107,700.80	\$1,970.36	Net Increase

USE OF THE LIBRARY

The Circulation of books for the year showed an increase of 4,947 volumes over the previous year. The increase in the appropriation for the year barely kept pace with the increases voted for salaries and the amount available for the purchase of books remained about the same as in former years. Until provision is made for doing business on a much larger scale and for broadening the work of the library we must be content to serve the same public in about the same way that we have done for a number of years. Until an adequate system of branches is provided, an adequate amount for new books and for the greatly increasing need of books for the schools, we may not hope to compete in circulation with other Massachusetts cities of about the same size of Lowell.

EXHIBITIONS

Childhood II. French War Artists.

Colonial Houses. Boston Playgrounds. Masters of Color.

Sante Fe. Cathedrals of the World No. 2. French.

War XIV. Uniforms of the U.S. Army 1775-1918.

War VII. California. Warsaw.

CONDITION OF THE LIBRARY

New volumes purchased during the year	1,436
Volumes added by gift	21
Volumes added by binding periodicals	96
Duplicates purchased	1,181
Total number of volumes added	2.734
Total number of volumes in the Library	108,541
Periodicals and papers subscribed for	236
Periodicals and papers given	27
Number of volumes used, home and reference	165,043
Number of volumes consulted in the Reference Room	10,373
Magazines circulated	2,806
Library opened, days	303
Total circulation	165,043
Average daily circulation	544
Largest monthly circulation (November)	17,631
Smallest monthly circulation (August)	10,201
Largest daily circulation (December 11)	1,056
Smallest daily circulation (July 15)	96
Percentage of fiction read	80.4
Percentage of other classes	19.6
Children's Room circulation	38,670
Daily average	131

LIST OF DONORS 1920

Vo	ols.
American Tel. & Tel. Co.	1
American Walnut Mfrs. Asso.	1
Boughton, Mrs. M. A.	1
Brocton Committee on Public Safety	
Chapman, Wm. Hall	1
Columbia Basin Survey Commission	1
Earl, E. C.	
Fairchild Pub. Co.	1
Hill, E. C	1
Hudson Bay Co.	1
Hussey, Rev. A. R.	59
Korean Nat'l Asso.	1
Lowe, E. P., M. D	1
Munsey, Frank A.	1
Nat'l Bank of Commerce	1
Nat'l Lutheran Commission	1
Nat'l Rivers & Harbors Congress	2
Old Colony Trust Co.	7
Phillipine Press Bureau	1
Pons, A. A.	1
Putnam, G. P. & Sons	
Randlett, Mrs. O. B.	

STATISTICS IN FORM ADOPTED BY THE AMERICAN

LIBRARY ASSOCIATION

City Library, Lowell, Mass.
Annual Report for Year Ending December 31, 1920.
Population, 1920 Census, 112,759.
Free for Lending and Reference.
Two delivery stations, namely one at Davis Square, one in Central-
ville and several deposit stations.
Main Library open 303 days during year. 66 hours a week for
lending. 72 hours for reading.
Library open Sundays (Oct. to June) for reference and reading
2 to 9 P. M.
Reading Room open Sundays, 9 A. M. to 9 P. M.
Volumes in Library, January 1, 1920 105,807
Added by purchase 1,436
Added by gift21
Volumes in Library, Dec. 31, 1920
Volumes of fiction lent for home use:
Adult 91,124, Juvenile 29,774, Total
Total volumes lent for home use:
Adults 113,092, Juvenile 38,670, Total
2346 Borrowers registered during year. Registration period five
years.
263 Newspapers and Periodicals currently received.

New Registration with Five Year Limit.

Applicants received during the year	2,449
Applicants who did not call for cards	103
Number of names registered Dec. 31, 1920	32,186
Number of names registered Dec. 31, 1919	29,840
Total registered during the year	2,346













ANNUAL REPORT

OF THE

CITY SOLICITOR



FOR THE YEAR ENDING DECEMBER 31, 1920



LOWELL, MASS.
BUCKLAND PRINTING COMPANY '



REPORT

OFFICE OF CITY SOLICITOR LOWELL, MASS.

August 1, 1921.

TO THE MUNICIPAL COUNCIL OF THE CITY OF LOWELL,

GENTLEMEN:

I herewith submit the following as the report of the law department for the year 1920.

Respectfully,

William D. Regan, City Solicitor. During the year 1920, the following cases were tried, determined and settled:

SUPREME JUDICIAL COURT

17078 Charles E. Alway v. John F. Salmon et als. 17077 James E. Burns v. John F. Salmon et al.

These were two petitions for writs of mandamus to command the defendants to recognize the petitioners as members of the fire department of the City of Lowell and to cease from interfering with said petitioners in the performance of their duties in said department.

The above matters were heard before Mr. Justice Pierce on April 1, 1920, who allowed the petitions. An agreement was filed with the court for the payment by the City of costs to the petitioners of the following sums, \$14.24 to said Alway and \$14.23 to said Burns.

Richard D. Kimball Company v. J. Joseph Hennessy.

This was a petition for a writ of mandamus to issue to command the City Auditor to pay to said petitioner the sum of \$6000. for work done in preparing plans, etc., for the new High School addition, said sum having been voted to be paid to said petitioner by the High School Building Commission.

Hearing was had on the above matter on December 14, 1920, before Judge Jenney in the Supreme Judicial Court. Judge Jenney dismissed the petition on the ground that it was a matter that should properly have been brought in the Superior Court.

SUPERIOR COURT

36931 Joseph J. Sweeney v. City of Lowell.

This was an action of tort brought in the Superior Court in the sum of one thousand dollars. The writ was dated April 14, 1920 and returnable to Superior Court the first Mon-

day of June, 1920. This action grew out of a claim for damages for injuries to a horse resulting in its death, alleged to have been received while same was being driven through Arcadia Avenue a private way in the City of Lowell, on March 4, 1920. This case was heard at the October, 1920, sitting of the Superior Court before Judge Bishop, with jury. The jury returned a verdict for the City.

CASES NOW PENDING

26300 Edward D. Lyons v. City of Lowell. 26302 Lowell Trust Company v. Same.

These are two separate actions of tort brought in Superior Court in the sum of five thousand dollars each for damage to property caused by broken water pipes in Central, Gorham and Middlesex Streets.

Both writs were dated January 25, 1915 and returnable the first Monday of March, 1915.

These actions were consolidated and referred to Gilbert A. A. Pevey as auditor. Hearings were begun before Mr. Pevey on July 2, 1919, and extended over four days. The auditor rendered his finding generally for the plaintiffs. A motion to recommit said report to the auditor was filed with the court and allowed.

The report was recommitted and a rehearing held thereon. Thereafter the auditor filed a supplementary report. The matter then went on for hearing before Keating, J., in the City of Lowell, who confirmed the auditor's report and reported the questions of law for consideration by the Supreme Court.

This case is now pending in the Supreme Court.

35707 Apostolos A. Johnson and George E. Vozeolas v. City of Lowell.

This is a petition for a jury to assess damages for the taking of land on the Old Ferry Road for water works purposes. The land was taken by the Municipal Council by order of taking dated May 27, 1919, awarding the sum of thirty-five hundred and fifty dollars to the petitioners, which amount said petitioners considered inadequate and refused to accept.

The petition was dated November 19, 1919, and returnable the first Monday of January, 1920.

Trial on the matter was held before Fosdick, J., sitting with jury at Lowell, on June 14, 15, and 16, 1920. The jury at the conclusion of the hearings found for the plaintiffs in the sum of \$7975.

Exceptions were filed September 1, 1920. The bill of exceptions was allowed and the matter is now pending in the Supreme Court.

32792 Fred H. Rourke, Tax Collector, v. Frank Hanchett.

This is an action of contract brought in Superior Court for Middlesex County in the sum of ten thousand dollars by Fred H. Rourke, treasurer and collector of taxes for the City of Lowell, to recover taxes due the City of Lowell from Frank Hanchett for the year 1916. The writ is dated March 30, 1918, and returnable to Superior Court the first Monday of May, 1918.

This case came on to be heard before Hammond, J., who found for the City in the sum of \$9283.17 with interest from the date of the writ. Exceptions were taken by the defendant and the defendant filed a motion for a new trial. On September 15, 1919, a motion to extend the time for filing exceptions was made and allowed.

Two hearings were had on the motion for a new trial before Hammond, J., which motion was finally disallowed, and the court thereafter filed a supplementary memorandum of findings in the case. The case is now pending in the Supreme Court.

SUPERIOR COURT

31995 James C. Donovan v. City of Lowell.

This is an action of tort brought in the Superior Court in the sum of three thousand dollars for damages to the plaintiff's property at the corner of Market and Palmer Streets, caused by the overflow of a city water main. The writ is dated May 3, 1917 and returnable the first Monday of July, 1917.

The case came on to be heard at the fall sitting of the Superior Court in Lowell. The City Solicitor moved that the matter be referred to an auditor, and G. A. A. Pevey of Cambridge was appointed by the Court to hear the parties, their witnesses, and examine their vouchers; his decision on the matter for damages to be final. Hearings were to commence on January 1, 1920, and to conclude on the first day of March, 1920. Several hearings were held before the auditor during 1920 in this matter. The Lowell Electric Light Corporation was summoned as a co-defendant with the City of Lowell. The auditor upon the conclusion of the hearings found against the Lowell Electric Light Corporation and for the City of Lowell. The case is now pending in the Superior Court.

21670 Thomas Risten alias v. City of Lowell.(Essex)

This is an action of tort brought in Superior Court for Essex County in the sum of five hundred dollars. The writ

was dated January 13, 1920 and returnable the first Monday of March, 1920. This case grew out of alleged damage to an automobile owned and operated by the plaintiff on First Street, Lowell, on or about September 14, 1919.

36483 Jerome P. Cullen v. City of Lowell.

This is an action of contract brought in the sum of two thousand dollars. The writ was dated January 29, 1920 and returnable the first Monday of March, 1920. The plaintiff alleges having received injuries which incapacitated him for forty-three days, during which time his wages were withheld. This action was brought for the recovery of said wages. A special appearance and demurrer have been filed by the City.

22191 Bruno Ferrini v. City of Lowell. (Essex)

This is an action of tort brought in the sum of four thousand dollars for mental and physical injuries sustained as the result of being thrown from a motor cycle which was being operated on Colonial Avenue on or about June 20, 1920 by the plaintiff, due to an alleged defect in said avenue.

The writ was dated July 9, 1920 and returnable the first Monday of September, 1920. A special appearance, answer and plea in abatement have been filed by the city.

31066 Annie I. Young v. City of Lowell.

This is an action of tort brought in the sum of two thousand dollars for alleged damage to plaintiff's property caused by the entry thereon of agents and servants of the City of Lowell.

The writ was dated April 5, 1917 and returnable to Superior Court the first Monday of June, 1917.

Appearance was duly entered by the city. Said appear ance was returned with a memorandum stating that no entry of this action had been made. Late entry, of which the city was never notified, was allowed June 18, 1917. Later an answer and a motion to remove the default against the city for non-appearance were filed. Said motion was allowed.

38410 Mary Carey v. City of Lowell.

This is an action of tort brought in the sum of three thousand dollars for alleged injuries sustained on or about November 20, 1919 while traveling on a sidewalk in Andrews Street.

The writ was dated November 16, 1920 and returnable to Superior Court the first Monday of January, 1921. In this matter a special appearance and answer have been filed by the city.

38595 City of Lowell v. Mary H. Costello, Admx.

This is an action of tort brought in the sum of ten thousand dollars by the city against Mary H. Costello, administratrix of the estate of Thomas F. Costello, for the failure to fulfill a certain contract for the construction and completion of a plumbing and gas piping system in the Morey School addition, entered into by and between Thomas F. Costello and the City of Lowell, dated August 25, 1919.

A writ dated October 2, 1920 and returnable to the Superior Court the first Monday of January, 1921, was entered, and a declaration filed by the City of Lowell.

38594 City of Lowell v. Maryland Casualty Company.

This is an action of tort brought in the sum of three thousand dollars against the defendant as surety on the bond of the late Thomas F. Costello, given as security for the faithful performance of a contract entered into by and between said Costello and the City of Lowell, dated August 25, 1919, for the completion and construction of a plumbing and gas piping

system in the addition to the Charles W. Morey School. The writ was entered and declaration filed. The writ was dated October 22, 1920 and returnable the first Monday of January, 1921.

37532 James J. Healey v. City of Lowell.

This is an action of tort brought in the sum of one thousand dollars by the plaintiff to recover for personal injuries alleged to have been sustained on or about March 31, 1920, while traveling along the sidewalk on Lincoln Street.

The writ was dated July 16, 1920 and returnable the first Monday of September, 1920.

A special appearance and answer have been filed in this matter by the city.

36011 Donald W. McKenzie and Sam Asquith v. City of Lowell.

This is an action of tort brought in the Superior Court for Middlesex County in the sum of five thousand dollars to recover for the loss of groceries stored in the cellar of the plaintiffs, due to the alleged backing up of the Church Street sewer on or about January 30, 1919. The writ was dated November 19, 1919 and was returnable the first Monday of January, 1920.

In this matter a special appearance was filed. In due course an answer and motion for specifications were filed.

The matter is now pending in the Superior Court.

POLICE COURT

Rose A. Dowd v. City of Lowell.

This is an action of tort growing out of an alleged injury to a hot water boiler, alleged to have been caused by the shutting off of the water to plaintiff's house without notification from the Water Works Department, and is brought in the sum of three hundred dollars.

The writ is dated April 26, 1920 and is returnable the first Saturday of June, 1920. An appearance and answer have been filed by the defendant and the matter is now pending in the Police Court

WORKMEN'S COMPENSATION

In 1920, twenty-three accidents to employees of the city were reported to the law department and investigated by said department. Compensation was allowed and paid to eighteen of said employees, two of whom were allowed additional compensation,—one for the loss of the first phalange on the large finger of the left hand, and the other for the loss of sight in the right eye.

The payment of compensation was continued to eight other employees who were injured in previous years.

One hearing before a member of the Industrial Accident Board was held in 1920. This was in the matter of John B. Riley who was injured January 2, 1920, while at work for the department of public property in the mayor's office. He was allowed fifty-four days' compensation, amounting to \$146.28.

The accidents were distributed among the various departments, as follows:

Streets and Highways		12
Water Works	•	4
Health		4
Public Property		3
		23

The total amount of money expended in the appropriation for Workmen's Compensation during the year was \$5526.00, as against an expenditure of \$4734.37 in 1919. Of this amount,

\$4928.96 was spent for wages, \$590.79 for medical and hospital services, and \$6.25 for printing.

During the year 1920 no change was made in the following cases which are still pending:

3032 Bragg Mfg. Co. vs. City of Lowell.

274 Peter Curran vs. City of Lowell.

19073 Winifred Radigan vs. City of Lowell.

882 Hassam Paving Co. vs. City of Lowell (U. S. Ct.)

1992

Grade Crossings (1910-Equity.)

1957

2402 R. C. Maxwell vs. James E. O'Donnell et al.

2552 Thos. F. Carroll et als vs. John B. Clancy.

28322 Susan F. Taylor vs. City of Lowell.

26498 Dennis J. Cooney vs. City of Lowell.

30661 Margaret W. Merrill vs. City of Lowell.

29009 George C. Dempsey et al vs. City of Lowell.

29008 George C. Dempsey et al vs. City of Lowell.

28891 Margaret W. Merrill vs. City of Lowell.

28892 P. Dempsey & Co. vs. City of Lowell.

27988 Ida C. Braun'vs. City of Lowell.

27985 Elizabeth J. Shunny vs. City of Lowell.

28003 James Crompton vs. City of Lowell.

27992 Lowell Day Nursery Association vs. City of Lowell.

27987 Almira Chapman vs. City of Lowell.

27997 Joseph Gagnon et al vs. City of Lowell.

Benjamin F. Nichols et al vs. City of Lowell.

- 28896 Frank Mallorey vs. City of Lowell.
- 31404 John H. Rigg, Admr. vs. City of Lowell.
- 32376 Julia E. Cote vs. City of Lowell.
- 32521 Alice A. Bagley vs. City of Lowell.
 - 74 Leo O'Neil vs. City of Lowell.
 - 590 Sophia Hall vs. City of Lowell.
 - 301 George H. Jones vs. City of Lowell.
 - 387 City of Lowell vs. H. D. Oliver.
 - 6838 John J. McMahon vs. City of Lowell.
 - 207 Amedee Archambault vs. City of Lowell.

Written opinions rendered by the City Solicitor during the year 1920:

- Jan. 2. MUNICIPAL COUNCIL: Relative to an audit of the accounts of the Water Works Department.
- Jan. 21. BOARD OF PARK COMMISSIONERS: Relative to the use of the South Common for the erection of a temporary building.
- Jan. 24. HIGH SCHOOL BUILDING COMMISSION: As to the right of the Commission to execute a cost-plus contract for the construction of a new High School.
- Jan. 26. PERRY D. THOMPSON: Relative to locating an evangelical temple on the site of the proposed memorial auditorium.
 - Mar. 2. J. JOSEPH HENNESSY: Relative to the au-

thority of the city to appropriate \$2500. for a fitting observance of Memorial Day.

- Mar. 9. JOHN H. LAMBERT: Relative to the liability of the City of Lowell to Henry L. Rourke as architect for the construction of the addition to the High School.
- Mar. 12. Perry D. THOMPSON: As to authority of the Commissioner of Water Works and Fire Protection to discontinue any specific fire station or engine house in Lowell.
- Mar. 15. GEORGE E. MARCHAND: Relative to the plumbing contract for the new Morey School addition signed by Thomas F. Costello.
- Mar. 16. PERRY D. THOMPSON: Relative to the term of office of a person to be elected to the Board of Election Commissioners of the City of Lowell on April 1, 1920.
- Mar. 20. JOHN H. LAMBERT: Relative to the Richard D. Kimball Company contract for engineering services in the construction of the new High School.
- Mar. 23. PERRY D. THOMPSON: Relative to the term of an officer to be elected by the Municipal Council for and under the provisions of section 2, chapter 154, Special Acts 1920.
- Mar. 23. PERRY D. THOMPSON: Relative to the status of Omer J. Allard as a registrar of voters.
- Mar. 25. REDMOND WELCH: Relative to the length of time that a vehicle may be allowed to stand on Paige Street.
- Mar. 29. HIGH SCHOOL BUILDING COMMISSION: Relative to the liability of the City to pay Henry L. Rourke

extra compensation for changes in plans and specifications for new High School.

- Mar. 30. HIGH SCHOOL BUILDING COMMISSION: Relative to the power of the Commission to direct the City Treasurer in carrying the funds received and expended by the Commission.
- Mar. 31. STEPHEN FLYNN: Relative to the duties of the City Clerk under c. 154, special acts of 1920.
- Apr. 6. EDWARD H. FOYE: Relative to the right of the purchasing agent to purchase in the market supplies for which immediate delivery is imperative when a contract is pending for like supplies.
- Apr. 7. J. JOSEPH HENNESSY: Relative to the salary of the superintendent of schools and the right of the school committee to make the same retroactive.
- Apr. 7. WILLIAM H. MAHAN: Relative to the proper person to enforce section 5 of chapter 296 of the general acts of the year 1915, regarding licenses for electricians.
- Apr. 10. GEORGE E. MARCHAND: Relative to the proposed ordinance concerning the control of building operation in the City of Lowell.
- Apr. 22. MUNICIPAL COUNCIL: Relative to the petition of George H. Brown regarding the payment of moneys expended by him.
- Apr. 26. DR. M. A. TIGHE: Relative to the examination of callmen for the permanent force by the city physician.

- Apr. 30. BRITISH AND CANADIAN WAR VET-ERANS' ASSOCIATION: Relative to the payment of a poll tax of \$5 by Canadian War Veterans who are residents of Massachusetts.
- May 10. J. JOSEPH HENNESSY: Relative to the right of the school committee to vote \$800. to defray the expense of school officials in the investigation of out of town schools, and the legality of said vote.
- May 24. JOHN F. SALMON: Relative to the petition of William N. Flagg to be retired on pension.
- June 5. WILLIAM H. RIGBY: As to whether the Board of Cemetery Commissioners can increase the prices charged for the care of lots in the public cemeteries.
- July 29. LICENSE COMMISSION: Relative to the licensing of a dance hall on the Pawtucket Boulevard.
- Aug. 10. JOHN W. KERNAN: Relative to the liability imposed upon the city by the granting of a concession at the new public bath house.
- Aug. 10. J. JOSEPH HENNESSY: Relative to the issuing of drafts for the payment of bills contracted by the city.
- Aug. 10. WILLIAM H. RIGBY: Relative to the right of the Cemetery Commissioners to control the investment of their perpetual care fund.
- Nov. 10. BOARD OF PARK COMMISSIONERS: Whether or not the Board of Park Commissioners has the right to sell the Fayette School property.
- Nov. 11. BOARD OF PARK COMMISSIONERS: Regarding the liability of the City of Lowell to answer in damages to Mary Fox.
- Nov. 30. JOHN H. LAMBERT: Relative to the matter of sewer connections with the High School.

CITY SOLICITORS

3840-1918								
Name Da	te of	Ele	ction		Term	of a	Servic	е
Thomas Hopkinson	${\bf April}$	7,	1840					
John A. Knowles	May	31,	1841					
Richard G. Colby	Apr.	13,	1842					
Seth Ames	Aug.	26,	1843					
Isaac S. Morse	July	31,	1849					
Theodore H. Sweetser	Jan.	3,	1853					
Arthur P. Bonney	Jan.	9,	1855					
Alpheus R. Brown	Jan.	8,	1856					
Robert R. Caverly	Jan.	12,	1857					
Alpheus R. Brown	Jan.	4,	1858					
Theodore H. Sweetser	Jan.	3,	1859					
Alpheus R. Brown	Jan.	6,	1862	Jan.	6, 1862	to	Mar.	1, 1864
Tappan Wentworth	Feb.	23,	1864	Feb.	23, 1864	to	Mar.	1, 1867
George Stevens	Jan.	7,	1867	Mar.	1, 1867	to	Mar.	1, 1870
John F. McEvoy	Jan.	25,	1870	Mar.	1, 1870	to	Mar.	1, 1872
Joshua N. Marshall	Jan.	1,	1872	Mar.	1, 1872	to	Mar.	1, 1873
John F. McEvoy	Jan.	6,	1873	Mar.	1, 1873	to	Mar.	1, 1875
George F. Richardson	Feb.	9,	1875	Mar.	1, 1875	to	Mar.	1, 1880
George F. Lawton	Jan.	5,	1880	Mar.	1, 1880	to	Mar.	1, 1883
Națhan D. Pratt	Jan.	1,	1883	Mar.	1, 1883	to	Mar.	1, 1885
George F. Lawton	Jan.	5,	1885	Mar.	1, 1885	to	Mar.	30, 1886
John J. Pickman	Apr.	6,	1886	Apr.	6, 1886	to	Mar.	1, 1887
William F. Courtney	Jan.	14,	1887	Mar.	1, 1887	to	Mar.	1, 1888
Frederic T. Greenhalge	Jan.	24,	1888	Mar.	1, 1888	to	Mar.	1, 1889
Larkin T. Trull	Jan.	7,	1889	Mar.	1, 1889	to	Mar.	1, 1891
John J. Hogan	Feb.	10,	1891	Mar.	1, 1891	to	Aug.	5, 1895
Francis W. Qua	Aug.	1,	1895	Aug.	5, 1895	to	Mar.	1, 1903
William A. Hogan	Jan.	6,	1903	Mar.	2, 1903	to	Mar.	1, 1905
J. Gilbert Hill	Jan.	3,	1905	Mar.	1, 1905	to	Mar.	1, 1909
William W. Duncan	Jan.	4,	1909	Mar.	1, 1909	to	Jan.	2, 1912
J. Joseph Hennessy	Jan.	2,	1912	Jan.	2, 1912	to	Feb.	15, 1916
Harold A. Varnum	Feb.	5,	1916	Feb.	5, 1916	to	Jan.	30, 1917
William D. Regan	Feb.	9,	1917	Feb.	9, 1917	to		

Respectfully submitted,

WILLIAM D. REGAN, City Solicitor.







LIST OF JURORS

FOR THE

CITY OF LOWELL

FOR THE YEAR

1921



LIST OF JURORS

A

Abbott, James M., 24 Fairmount st., broker. Abbott, Leon D., 5 Parkview ave., foreman. Achin, Henry, Jr., 9 Plymouth st., insurance. Achin, Victor, 749 Merrimack st., dealer. Achin, Wilfred J., 42 Mt. Vernon, chauffeur. Adams, John M., 54 Gates st., painter. Adams, Smith J., 11 Gilbride terrace, salesman. Adsit, Alvaro W., 228 East Merrimack st., second hand. Ahearn, Joseph J., Jr., 16 Leroy st., blacksmith. Alexander, J. Walter, 774 Moody st., clerk. Allard, Henry, 3 Lilley ave., dealer. Allard, Joseph J., 114 Ennell st., storekeeper. Allen, Walter M. N., 39 Elliott st., machinst. Anderson, August, 23 Lundberg st., operative. Anderson, Charles E., 1386 Gorham st., molder. Andrews, John A., rear 11 So, Whipple st., leatherworker. Andrews, J. Munn, 256 Andover st., manufacturer. Archambault, Amedee, 742 Merrimack st., undertaker. Archambault, Henri A., 742 Merrimack st., undertaker. Armistead, Robert R., 126 West Meadow rd., dealer. Ashton, John T., 60 Orleans st., second hand. Ashworth, James, 137 Stackpole st., gentleman. Asquith, Sam, 36 Chatham st., merchant. Asselin, Charles A., 148 Ennell st., electrician. Atherton, Charles S., 12 Cheney pl., clerk. Ayer, Lorenzo A., 557 Varnum ave., gardener. Ayer, William A., 27 Varnum ave., plumber. Ayotte, Edward, 83 Salem st., operative.

B

Batchelder, Mark O., 650 Stevens st., overseer. Bagshaw, Walter H., Jr., 94 Fairmont st., manufacturer. Balfrey, John, 65 Congress st., shoemaker. Bancroft, Frank M., 7 Brookside st., motorman. Banks, Isaac, 133 Howard st., operative. Barker, Edgar H., 9 Mt. Hope st., instructor. Barlofsky, Archie, 135 Howard st., clerk. Barnes, Henry W., 30 Huntington st., banker, Barber, Jesse, 8-76 Congress st., bleachery. Barber, Joseph. 252 Pawtucket st., manufacturer. Barrett, Andrew E., 77 Mt. Vernon st., merchant. Barry, Henry, 147 Hildreth st., operative. Barry, Patrick H., 13 Sycamore st., watchman. Barry, John H., 15 Lombard st., plumber. Barry, George, 20 Lombard st., machinist, Barry, William A., 34 Laurel st., clerk. Barry, William J., 4 Hanks st., manufacturer. Basnett, George B., 625 East Merrimack st., barber. Bassett, Cyrus R., 32 Meadowcroft st., U. S. C. Co. Bean, Ralph M., 15 Eighth ave., secretary. Beane, George L., 181 Mt. Vernon st., operator. Beane, Thomas J., 104 Pleasant st., life insurance. Beaudry, Francois, 111 Fulton st., teamster. Beaulieu, John H., 202 Hildreth st., dealer. Beaumier, Joseph, 11 Second st., clerk. Beauregard, Oliver J., 868 Moody st., clerk. Beauregard, Wilfred A., 105 Crawford st., contractor. Beck, Edmund, 107 Warwick st., laborer. Belanger, Clovis, 768 Merrimack st., solicitor. Bell, Frank A., 19 Wachusett st., machinist. Bellefontaine, Miller, 130 Riverside st., furniture dealer. Beharrell, Joseph R., 114 Wentworth ave., carpenter. Berard, Adelard, 577 Middlesex st., expressman. Bergeron, Albert, 35 Mt. Vernon st., real estate. Bergeron, Philippe O., 825 Merrimack st., musician. Bernard, George, 2 Montcalm ave., dealer. Bernier, Arthur J., 265 West 6th st., clerk. Bernston, Olaf A., 121 Moore st., dealer. Bernier, Samuel J., 22 Rockdale ave., clerk.

Best, Arthur H., 42 B st., J. C. Ayer Co.

Bibeault, Alfred W., 135 Liberty st., operative. Bibeault, Alphonse, 21 Wilder ave., stone cutter. Billingsley, Fred, 320 Wentworth ave., dealer. Bishop, Herbert L., 28 May st., paymaster. Bishop, Warren A., 123 Agawam st., R. R. Bissonnette, Henry, 97 Aiken ave., dealer, Bissonnette, John, 47 Mt. Washington st., painter. Bissonnette, Zephyrin J., 300 Varnum ave., telegrapher. Bilodeau, Napoleon J., 713 Merrimack st., undertaker. Bixby, Albert H., 24 Marlboro st., salesman. Blanchette, Tancrede L., 32 Decatur st., clerk. Blazon, Donat, 131 Gershom ave., printer. Blodgett, Emery F., 585 Chelmsford st., bookkeeper. Blood, Cyrus F., 222 High st., clerk. Blowen, Herbert, 25 Harrison st., ice cream maker, Boardman, Edward, 467 Merrimack st., dealer, Boardman, J. Harry, 107 Clark rd., banker. Bolan, Edward S., Jr., 53 Shaffer st., barber. Boland, James J., 210 Appleton st., manager. Boland, James J., Jr., 210 Appleton st., merchant, Bonin, Honore, 90 Aiken st., barber. Bordeleau, Emile, 865 Mooday st., salesman. Boucher, George H., 125 Dalton st., dealer. Boudreau, Frank M., 722 Moody st., clerk. Boudreau, John B., 53 Mt. Hope st., grocer. Boughton, John L., 146 Chelmsford st., laborer. Boulais, Arthur N., 8 Dracut st., clerk. Boulais, Henri J., 8 Dracut st., clerk. Boule, Lazare, 538 Moody st., operative. Boulger, John B., 835 Moody st., merchant. Bourdon, Michael, 805 Merrimack st., carpenter. Bourgeois, Gustave M., 62 Mt. Hope st., clerk. Bourque, Philip R., 19 Lombard st., carpenter. Bourret, Charles E., 910 Lakeview ave., plumber. Bowles, Willis J., 244 W. Sixth st., operative. Box, John W., 7 Lyons st., beltmaker. Boyd, Joseph F., 21 Chestnut sq., manager. Branchaud, Alberic A., 15 Dana st., manager. Branchaud, Charles E., 9 Somerset st., clerk. Brantigan, Willie, 9 Rockdale ave., operative. Bray, George, 341 Lakeview ave., merchant.

Bray, Richard, 23 Belrose ave., master mechanic.

Brassard, Maurice, 4 Butterfield st., clerk.

Brassard, Henry J., 68 Mt. Hope st., chauffeur.

Brault, Aristide, 18 Cambridge st., packer.

Breen, John P., 9 Lyons st., Loomfixer

Breen, Stephen D., 57 Crawford st., ins. agent.

Brennan, George F., 31 Crowley st., Lowell Gas Lt. Co.

Brennan, George F., 521 Dutton st., metal worker.

Brennan, Owen E., 26 Crowley st., hardware dealer.

Brierley, Eugene L., 74 So. Loring st., painter.

Briggan, George F., 22 Royal st., clerk.

Brigham, Charles R., 99 So. Walker st., manager.

Brigham, Charles R., 70 Queen st., clerk.

Brimigion, Caleb, 58 Agawam st., bleachery.

Bressette, Rupert N., 5 Crescent st., clerk.

Broadbent, John W., 42 Maple st., weaver.

Brodeur, Arthur, 13 Gold st., clerk.

Brodeur, Arthur J., 546 Middlesex st., clerk.

Brock, Charles F., 47 Seventh ave., clerk.

Brogan, Frank M., 88 Mt. Vernon st., insurance.

Brogan, Joseph, 80 Mt. Washington st., machinist.

Brosnahan, Patrick H., 796 Lawrence st., dealer.

Brosnan, Patrick T., 38 Second ave., salesman.

Brosseau, Albert, 16 Lawton st., machinist.

Brosseau, Charles G., 43 Essex st., clerk.

Brousseau, Pierre A., 43 Essex st., clerk.

Bourgeois, Gustave M., 76 Mt. Hope st., clerk.

Brown, James T., 53 Tolman ave., operative.

Brown, Patrick J., 198 Cross st., operative.

Brown, Patrick W., 764 Broadway, operative.

Brown, Patrick H., 980 Varnum ave., brakeman

Brown, William J., 23 Chase ave., clerk.

Bruin, Michael J., 81 Mt. Vernon st., janitor.

Brunelle, Arthur J., 536 Fletcher st., clerk.

Brunelle, Oliva, 33 Gershom ave., operative.

Buckley, Frederick J., 36 Mead st., leather worker.

Buckley, James H., 23 Starbird st., cigarmaker.

Buckley, John T., 11 Livermore st., painter.

Buote, Michael, 407 Moody st., operative.

Burbank, Edgar P., 43 Second ave., operative.

Burbank, Percival P., 14 Eighth ave., dealer.

Burbeck, William J., 32 Sheldon st., retired. Burgovne, John J., 3 Cedar st. ct., water works. Burke, Edward N., 216 Nesmith st., retired. Burke, Joseph P., 11 West st., weaver. Burke, William P., 30 Abbott st., watchman. Burkinshaw, Joseph, 25 Marlborough st., druggist, Burns, Andres F., Jr., 48 Fremont st., barber. Burns, Arthur G., 160 Pine st., clerk. Burns, Francis A., 117 Stackpole st., bookbinder. Burns, George E., 28 Crowley st., clerk. Burns, James E., 23 State st., laborer. Burns, James J., 48 Lincoln st., spinner. Burns, Charles H., 84 Methuen st., barber. Burns, Joseph F., 18 Bellevue st., clerk. Burns, Stephen F., 282 Fayette st., operative. Burns, Thomas J., 25 Fulton st., clerk. Burt, John W., 760 Broadway, beamer. Burtt, Fred K., 52 Hanks st., druggist. Burtt, Walter N., 385 Walker st., clerk. Burrill, John F., 612 Beacon st., clerk. Butler, John R., 159 Broadway, waiter. Buttermore, John F., 58 Agawam st., tanner. Byam, Arnold A., 12 Albert st., real estate. Byam, Otis, 79 Canton st., milk dealer. Byam, George A., Jr., 27 Fleming st., real estate.

C

Caddell, Peter, 94 Viola st., overseer.
Cadorette, Joseph, 118 Ennell st., mason.
Cady, George L., Jr., 150 Mt. Vernon st., box maker.
Cady, Louis, 629 East Merrimack st., park dep't.
Cahill, George W., 259 Worthen st., laborer.
Callahan, Bernard, 114 Third st., retired.
Callahan, George T., 122 Humphrey st., advertiser.
Callahan, Phillip H., 82 Beacon st., painter.
Callery, Bartholomew, 29 Bourne st., Health Dept.
Calnan, Cornelius F., 84 Forrest st., U. S. C. Co.
Camire, Evariste A., 753 Moody st., storekeeper.
Cameron, Donald M., 328 Wilder st., manufacturer.
Cameron, James, 105 Georgia ave., dealer.

Campbell, Abel R., 23 Harris ave., real estate.

Campbell, Frank J., 711 Westford st., druggist.

Campbell, Frederick L., 53 Keene st., asst. boss.

Campbell, George M., 20 Nesmith st., dealer.

Campbell, Thomas J., 848 Moody st., dealer.

Campbell, James C., 131 Church st., operative.

Campbell, John H., 53 Keene st., chauffeur.

Cannon, Michael F., 69 Loring st., printer.

Cantin, Eugene H., 104 School st., real estate.

Clark, Joseph M., 35 Oak st.

Clark, T. Frank, 35 Oak st.

Carmichael, James H., 59 Huntington st., overseer.

Carney, Edward B., 25 Plymouth st., banker.

Caron, Amedee, 99 Ennell st., tailor.

Caron, Joseph, 74 Branch st., carder.

Carragher, Frederick F., 365 Beacon st., laborer.

Carrier, Joseph, 208 Cumberland rd., dealer.

Carroll, Daniel F., 216 Thorndike st., master plumber.

Carroll, John J., 97 Crawford st., machinist.

Carroll, Joseph P., 780 Chelmsford st., nurse.

Carroll, William A., 97 Crawford st., druggist.

Caron, Thomas, 19 Phæbe ave., operative.

Carufel, Emile, 215 White st., operative.

Casey, James B., 603 Chelmsford st., manufacturer.

Casey, James J., 815 Chelmsford st., salesman

Cashman, Martin F., 68 Varnum st., stage hand.

Cassidy, Frank A., 8 Livermore st., assistant janitor.

Cawley, William F., 85 Rogers st., clerk.

Cavanaugh, Patrick, 565 Broadway, waiter.

Chabot, George A., 51 East Meadow rd., operative.

Chaloux, William L., 88 Bartlett st., manager.

Champagne, Eusebe, 4-455 Moody st., musician.

Chandler, George R., 107 Holyrood ave., teller.

Chapman, Herbert L., 418 Walker st., printer.

Chappell, Francis, 18 Ash st., laborer.

Charron, Edmond J., 142 Grand st., machinist.

Charron, Sylva, 134 West st., chef.

Cheney, Frederick R., 36 B st., tannery.

Choate, Albert H., 40 Hawthorne st., drug clerk.

Choquette, Jeremie A., 89 Butterfield st., salesman.

Chouinard, Zenon, 689 Lakeview ave., repairer.

Chretien, Joseph A. N., 159 Ludlam st., floor walker. Christman, Eustache, 154 Woburn st., grocer. Claffy, John W., 28 Lawrence st., second hand. Clapp, Harry C., 116 Hanks, dealer. Clancy, Arthur F., 48 Fisher st., conductor. Clancy, John, 198 Riverside st., dealer. Clancy, James J., 39 Whipple st., teamster. Clancy, Peter, 560 Broadway, machinist. Clark, Cornelius E., 228 High st., retired. Clark, George M., 222 High st., moulder. Clark, Lewis C., 550 Varnum ave., clerk. Clay, Harry E., 12 Orford st., operator. Cleary, John H., 149 E. Merrimack st., clerk. Clinton, William H., 27 Bowden st., B. & M. R. R. Clowery, John J., 10 Alder st., barber. Coburn. Clarence G., 215 Mammoth rd., retired. Cochrane, Delwin A., 32 Maryland ave., clerk. Coffey, James J., 148 Sanders ave., dealer. Coffey, Humphrey, 183 Wilder st., provisions. Coffey, Timothy J., 148 Sanders ave., grocer. Cogger, John H., 80 White st., printer. Cogger, Patrick, 438 Riverside st., contractor. Coggeshall, Frederick H., 38 Nichols st., clerk. Cognac, Leonce, 153 Avon st., clerk. Cole, Fred H., 727 East Merrimack st., foreman. Coleman, Joseph H., 881 Bridge st., painter. Collins, Cornelius E., 394 High st., real estate and insurance. Collins, William E., 145 Andrews st., lather. Comerford, Fred S., 32 Nineteenth st., salesman. Conant, Herbert J., 16 Grove st., clerk, B. & M. R. R. Connolly, John F., 108 Agawam st., wool sorter. Connor, Bernard A., 386 Fletcher st., water works. Connor, Edward, 48 May st., second hand. Connor, Francis A., 71 Richardson st., superintendent. Connors, Charles A., 103 Westford st., clerk. Conroy, Robert F., 153 Appleton st., manager. Conroy, John, 509 East Merrimack st., operative. Conroy, Thomas, 124 Bastlett, clerk. Constantineau, Alexander, 58 Second ave., painter. Conway, George F., 61 Hoyt ave., provisions.

Conway, John T., 169 Saunders ave., express.

Conway, Richard B., 15 Windsor st., clerk. Cooney, Dennis J., 649 Westford st., dealer, Corbett, John H., 14 Burns st., provision dealer. Corbett, Thomas J., 361 Concord st., salesman. Corcoran, Joseph F., 40 Fort Hill ave., printer. Cosgrove, Christopher, 4-32 Pleasant st., agent. Cossette, P. Napoleon, 33 Wannalancit st., real estate. Cossette, Jeffrey, 40 Sparks st., dealer. Costello, Robert E., 497 School st., foreman. Cote, Charles A., Jr., 52 Coral st., auto livery. Cote, Eugene J., 71 Third st., loomfixer. Cote, Herve E., 28 Fourth st., tinsmith. Cote, Raoul, 161 East Meadow rd., machinist. Cottrell, William H., 17 Viola st., printer. Coughlin, James, 406 Stevens st., shoemaker. Coutes, Joseph, 265 Cheever st., dealer. Cover, Frank G., 30 West Bowers st., dealer. Cox, Terence J., 239 Stackpole st., barber. Covne, John J., 33 St. James st., salesman. Craig, Peter R., 59 Porter st., superintendent. Crane, Eugene F., 517 Westford st., real estate. Cornellier, Louis J., 479 Moody st., operative. Cottrell, Thomas S., 44 Crowley st., chiropodist. Craig, Malachy, 136 Moore st., U. S. C. Co. Crawford, John C., 24 Maitland ave., blacksmith. Crockett, Harry B., 549 Westford st., clerk. Crockett, Wallace W., 19 Liberty st., wheelwright. Cronin, Cornelius F., 344 Varnum ave., real estate. Cronin, Dennis F., 205 High st., waiter. Cronshaw, John, 17 Gold st., inspector. Crosby, Burton H., 111 Moore st., mason. Crosby, Frederick H., rear 111 Moore st., plasterer. Crosby, Sterling B., 129 Midland st., real estate. Crowley, John F., 14 Livermore st., clerk. Crowley, Robert E., Jr., 115 Fort Hill ave., real estate. Cruickshank, Alexander, 53 Highland ave., dealer. Cryan, John, 27 Bourne st., tanner. Cryan, Thomas E., 132 Grove st., conductor. Cuff, John H., 18 Agawam st., moulder. Cuff, Thomas S., 195 Moore st., druggist.

Cull, Thomas F., 249 East Merrimack st., steam fitter.

Cunningham, Clarence, 37 Durant st., steward.
Cunningham, Fred W,. 27 Fay st., shuttle maker.
Cunningham, Henry, 44 We. Fifth st., moulder.
Cunningham, Samuel S., 129 Moore st., confectioner.
Curtin, Edward A., 514 East Merrimack st., barber.
Curtin, Joseph P., 514 East Merrimack st., machinist.
Curran, John, 14 Mt. Grove st., inspector.
Cushing, Edward T., 103 3rd st., barber.
Cushing, Joseph L., 32 Mt. Washington st., manufacturer.
Cusick, James J., 27 Crowley st., clerk.
Cutler, John S., 840 Varnum ave., barber.
Cutter, Benjamin F., 71 Canton st., dealer.
Cutting, Lawrence F., 78 Methuen st., clerk.

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Dacey, James, 176 Andover st., clerk. Daidy, Michael A., 445 Merrimack st., engineer. Daigle, Henri, 17 Endicott st., operative. Dalton, Francis M., 55 Nesmith st., stenographer. Daly, John J., 19 North st., operative. Daly, John W., 76 Andrews st., clerk. Daly, William F., 20 Walden st., insurance agent. Danahy, Frank J., 33 State st., plasterer. Danahy, James D., 32 State st., plumber. Danahy, John J., 22 Crowley st., tinsmith. David, Albert W., 234 Gibson st., clerk. David, Olier, 22 Dalton st., merchant. Davis, Fred M., 47 Lundberg st., clerk. Davis, John, 444 Stevens st., moulder. Dawson, John J., 445 Middlesex st., manager. Day, Frank J., 979 Central st., water works. Day, James E., 493 Gorham st., agent. Day, John F., 15 Auburn st., lamplighter. Dean, Elmore T., 59 Westford st., Boston & Maine. Dean, Eugene, 203 Salem st., laborer. Dean, Eugene F., 203 Salem st., clerk. Dean, Sam, 36 Chatham st., retired. Dearborn, Lafayette A., 12 Totman st., engineer. Decatur, Herman B., 91 Norcross st., salesman. Delaney, Thomas B., 92 West st., installer. Delehanty, William H., 592 Gorham st., brewery worker. Delorme, Charles E., 368 Hildreth st., dealer.

Demaras, Harry, 14 Gilbride ter., constable.

Dempsey, Robert M., 57 Endicott st., operative.

Denault, Nazaire, 223 Christian st., carpenter.

Dery, Lewis, 63 Lilley ave., mason.

Desaulniers, Olivier L., 14 West Bowers st., clerk.

Descheneaux, Alberic, 179 Mt. Hope st., dealer.

Descheneaux, Louis, 767 Moody st., clerk.

Descheneaux, Omer, 69 Mt. Grove st., dealer.

Deslandes, Ambrose, 78 Queen st., barber.

Desmarais, Edelmard S., 716 Aiken st., dealer.

Desmond, Daniel A., 19 Wright st., dealer.

Desmond, Frederick H., 195 Stackpole st., clerk.

Devlin, Arthur A., 307 Thorndike st., stage hand.

Devlin, James P., 43 Willow st., printer.

Devlin, John J., 307 Thorndike st., bowling.

Dextra, Joseph, 518 Merrimack st., barber.

Dexter, Royal K., 319 Wilder st., dealer.

Dickson, David, 142 Smith st., dealer.

Dilts, Edward J., 24 Rutland st., student.

Dillworth, Daniel F., 95 Agawam st., clerk.

Dineen, Michael J., 25 Oliver st., conductor.

Dion, George, 185 Ludlam st., dealer.

Doherty, Henry P., 78 Bridge st., master painter.

Doherty, John J., 14 Hale st., mattress maker.

Doherty, Michael F., 315 Wentworth ave., confectionery.

Donnelly, Edward J., 14 Ames st., real estate

Donnelly, George, 281 Paige st., gentleman.

Donnelly, John F., 13 Newhall st., grocer.

Donohue, Michael J., 3 Brooks st., salesman.

Donohoe, James H., 45 Coral st., clerk.

Donovan, William H., 26 Madison st., dealer.

Doole, George Lee, 241 Moore st., operative.

Doran, Daniel, 354 Princeton st., assistant superintendent.

Doran, Henry F., 363 Broadway st., trimmer.

Dostaler, Frank X., 105 A st., provisions.

Douglass, John H., 137 Pleasant st., lunch cart.

Dow, James G., 149 B st., student.

Dow, Oscar C., 54 Parkview ave., clerk.

Dow, William A., 149 B st., plumber.

Doyle, George J., 15 Whipple st., barber.

Doyle, Stephen R., 533 Dutton st., musician.

Dozois, George H., 11 Spalding st., instructor. Dozois, Hector A., 67 Varney st., machinist. Dragon, Anthony F., 30 Sarah ave., collector. Drew. John B., 32 Burtt, st., dealer. Drinan, George, 537 Merrimack st., machinist. Drury, John E., 44 Hanks st., plumber. Dube, Joseph, Jr., 15 Livermore st., messenger. Dubois, Joseph, 793 Merrimack st., insurance. Dubuque, George H., 417 Bridge st., clerk. Dudevoir, Adelard, 520 Narmun ave., plumber. Duffy, Michael A., 204 South st., Duffy, Martin E., 1054 Bridge st., cigar maker. Duggan, Francis P., (U. S. C. Co.), 26 Agawam st. Dufresne, Edward P., 14 Wiggin st., clerk. Duncklee, Fred W., 62 Lundberg st., foreman. Dunlavey, John C., 415 Worthen st., laborer. Dunlay, John F., 682 Chelmsford st., truckman. Dunlay, Patrick F., 16 Corson st., truckman. Dunn, Charles W., 94 Fort Hill ave., clerk. Dunn, James J., 16 Ellsworth st., stone cutter. Dunn, Joseph, 610 School st., dealer. Dupont, Arthur, 4 Willie ave., fixer. Durkin, John T., 386 Concord st., printer. Durkin, Thomas J., 77 New Spaulding st., compositor. Dursthoff, Charles C., 1500 Gorham st., overseer. Duval, Alfred, 802 Moody st., machinist. Dwyer, John, 56 Waverley ave., painter. Dwyer, James A., 312 Thorndike st., salesman. Dwyer, Timothy J., 580 Gorham st., clerk. Dyer, John J., 29 Bridge st., mill worker.

E

Eagan, Thomas E., 93 Nelson ave., clerk.
Eastham, William J., 159 Chapel st., clerk.
Edwards, Arthur S., 40 Marginal st., dealer.
Eno, Pierre T. A., 35 Race st., agent.
Enright, George W., 71 W. Richardson st., clerk.
Erskine, Charles M., 25 Clark rd., real estate.
Estabrook, Howard M., 22 Seventh ave., meat cutter.
Estes, Fred A., 715 Westford st., insurance.

F

Fagan, Michael J., 162 Smith st., chauffeur. Fahey, William J., 862 Central st., plumber. Fallon, Andrew J., 108 Meadowcroft st., foreman. Farley, Harry P., 36 Prescott st., bottler. Farrell, John M., 2 West View st., auctioneer. Farrell, Samuel T., 358 Wentworth ave., salesman. Farrington, John C., 182 Perry st., clerk. Favreault, William A., 190 Pawtucket st., clerk. Fecteau, Alexis F., 740 Merrimack st., clerk. Fee. Thomas F., 126 Bartlett st., tailor. Fels, Max W., 21 Bachman st., clerk. Fife, James, 46 Merrill st., machinist. Fife, William F., 23 Sargent st., paver. Fielding, Albert, 36 Haines ave., pressman. Fielding, Joseph, 137 Forest st., overseer. Fielding, Joseph E., 637 Chelmsford st., merchant. Filion J. Anaclet, 348 Hildreth st., jeweler. Finlay, William D., 204 Moore st., metal worker. Finnegan, Frank J., 15 Crane ave., collector. Finnegan, Daniel T., 11 Sidney st., teamster, Finnegan, Timothy D., 22 Agawam st., laborer. Fitzgerald, Thomas J., 55 Grove st., dealer. Flannery, Charles Thomas, 132 Pleasant st., conductor. Flather, Frederick A., 68 Mansur st., treasurer. Fleet, Sidney R., 329 East Merrimack, journalist, Fleming, Samuel, 35 Methuen st., bootmaker. Flood, James H., 118 Bartlett st., dealer. Flynn, Eugene, 160 Agawam st., second hand. Foisey, Joseph A., 327 Hildreth st., baker. Foisey, Philip, Jr., 24 Gorham st., cook. Fontaine, Edmond P., 17 Second ave., insurance. Fontaine, Emery, 17 Second ave., operative. Fontaine, George E., 54 Mammoth rd., operative. Ford, William Nathan, 15 Harding st., janitor. Forgays, Harold J., 24 Sidney st., salesman. Forrest, Charles M., 30 Sanders ave., lumber dealer. Forrest, Telesphore, 859 Lawrence st., tannery. Fortier, Joseph M. G., 36 Riverside st., watchmaker. Fortin, Antoine, 903 Moody st., clerk. Fortin, Leonce, 43 Plymouth st., manager.

Foye, Charles H., 182 South st., clerk.
Foye, Daniel E., 195 B st., dealer.
Foye, John J., 469 Pine st., dealer.
Foye, William P., Jr., 127 Durant st., salesman.
Frawley, David F., 66 Eustis ave., glazier.
Frayne, John J., 114 Rock st., barber.
Frazer, Thomas W., 52 Parker st., driver.
French, Albert F., 213 Park View ave., manufacturer.
French, Vernon A., 334 Mammoth rd., auto livery.
Frost, Charles E., 285 Princeton st., pedlar.
Frye, Austin A., 105 Eighteenth st., druggist.
Fuller, George B., 1524 Gorham st., lumber man.
Fullerton, Robert J., 17 Dutton st., second hand.

G

Gaffney, Everett M., 26 Third st., clerk. Gagnon, Joseph A., 67 Mt. Hope st., dealer. Gale, George Henry, 64 Lane st., loomfixer. Gallagher, Charles A., 85 Gershom ave., inspector. Gallagher, George 275 Fayette st., track layer. Gallagher, James J., 168 Cumberland rd., cigar store. Gallagher, Thomas J., rear 34 Coburn st., clerk. Galley, Arthur C., 17 Winthrop ave., draughtsman. Galley, Calvin L., 17 Winthrop ave., carpenter. Galley, John E., 79 B st., carpenter. Galvin, William H., 535 Lawrence st., fireman. Gamache, Emile, 9 Rhodora st., grocer. Gannon, Daniel J., 45 Moore st., dealer. Gardner, John J., 71 Waterford st., merchant. Gargan, Frank, 81 Bartlett st.; operative. Gargan, William J., 22 Ware st., bricklayer. Garland, Arthur W., 27 So. Loring st., railroad clerk. Garrick, Frederick D., 858 Bridge st., tinsmith. Garvey, Thomas F., 72 Lilley ave., cigar maker. Gaudette, George, 1117 Middlesex st., teamster. Gaudette, Octove, 44 So. Loring st., wholesale confectioner. Gauthier, Alfred J., 38 Lilley ave., blacksmith. Gelinas, Victor, 94 Ford st., grocer. Gendreau, Flavin, Circuit ave., tannery.

Genereux, Hildege, 15 James st., clerk. Genest, Arthur, 475 Varnum ave., contractor. Gerow, David, 769 Chelmsford st., hay and grain. Giblin, John J., 176 Ennell st., musician. Gilbert, Franz S., 50 Laurel st., overseer. Gildee, James B., 35 Oak st., clerk, Gill, Homer J., 28 Walker st., clerk. Gilman, Albert I., 20 East Pine st., foreman. Gilrov, Frank A., 145 Merrimack st., printer. Gilroux, Frederick, 156 Riverside st., machinist. Gilcreast, William J., 43 Forrest st., clerk. Gionet, Aime, 158 Fourth ave., insurance, Giroux, Arthur H. R., 794 Moody st., insurance. Goldberry, Benard, 61 Howard st., city. Golden, John F., 8 Butterfield st., clerk. Gonzales, Havier L., 126 Gorham st., cutler. Goodwin, William B., 111 Chestnut st., organist. Gookin, John J., 15 Aberdeen st., manager. Gordon, George W., 61 Loring st., carpenter. Gormley, Joseph H., 11 Lyon st., insurance. Gordan, J. Eugene, 68 Canton st., undertaker. Gorman, James E., 566 Westford st., shoe dealer. Gott, Paul M., 605 Bridge st., butcher. Grady, John J., 576 School st., laborer. Grady, Patrick A., 51 Barclay st., operative. Grady, William E., 881 Varnum ave., manager. Grant, Richard J., 25 Seventh st., dealer. Gray, Daniel L., 353 Bridge st., barber. Gray, Harry, 93 Dover st., provision dealer. Gray, John J., 236 Plain st., real estate agent. Grew, Wilbert, 106 School st., clerk. Green, John J., 52 Bartlett st., laborer. Green, Oliver H. P., 16 Spaulding st., carpenter. Gregoire, Edouard, 86 Ottawa st., insurance agent. Griffin, William J., 73 Fletcher st., manager. Guild, Chester A., 21 Eighteenth st., linotyper. Guimond, Adelard, 1847 Middlesex st.; brakeman. Gulline, Percy, 197 Pawtucket st., mfgr. Guyette, Walter E., 372 Parker st., real estate.

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Hackett, David J., 16 Crawford st., Water Works. Haggart, Daniel L., 60 Bartlett st., mule spinner. Haggerty, Joseph. 125 Grove st., telegrapher. Haggerty, Michael, 171 Powell st., blacksmith. Hale, Aura L., 94 Butterfield st., foreman. Hale, Milo W., Jr., 25 3rd st., clerk. Halstead, Charles W., 259 Princeton st., elec. lt. station. Hamel, Alfred, 100 Shaw st., checker. Hamel, Charles, 203 Ludlam st., contractor. Hamil, Bernard, 199 Mammoth rd., mason. Handley, Edward J., 279 Appleton st.; clerk. Hanson, James S., 584 Westford st., horse dealer. Harkins, John J., 14 Walnut st., machinist. Harriman, John, 517 Chelmsford st., overseer. Harrison, Joseph W., 566 School st., overseer. Hart, Daniel J., 52 Colonial ave., master baker. Hart, John E., 86 West st., janitor. Hart, John J., 336 East Merimack st., conductor. Hartigan, Chester T., 137 Moore st., shipper. Hartigan, Thomas F., 137 Moore st., folder. Hartnet, John J., 105 Liberty st., operative. Harrington, Charles P., 474 Gorham st., real estate. Harrison, Fred. 442 Stevens st., overseer. Harrison, Clifton B., 16 Bellevue st., machinist. Hart, Eli B., 125 Cross st., secretary, American Legion. Harvey, Joseph, 843 Moody st., master plumber. Hayes, Daniel, 73 Fletcher st., salesman. Healey, John W., 31 Crowley st., operative. Healey, Thomas H., 921 Lawrence st., overseer. Hearn, James, 50 Corbett st., watchman. Hebert, Elzear R., 772 Moody st., clerk. Hemman, Richard C., 245 Stevens st., cashier. Henry, Daniel P., 116 Fort Hill ave., truckman. Hessian, Thomas F., 30 Chippewa st., machinist. Hetu, Hermidas, 12 Dane st., second hand. Hickey, Albert W., 338 Fairmount st., clerk. Hickey, Cornelius, 10 Walnut st., clerk. Hickey, Walter H., 643 Westford st., foreman. Higgins, John J., 135 Andrews st., undertaker.

Higgins, Joseph J., 84 Mt. Washington st., grocer. Higgins, William F., 51 Abbott st., undertaker. Hiland, Michael, 25 Ash st., operative. Hill. Frank B., 27 Bellevue st., dealer. Hill, James G., 24 Myrtle st., painter. Hilliard, William B., 22 Webber st., machinist. Hoar, Martin J., 31 London st., folder. Hoar, Michael H., 161 Walker st., insurance. Hoar, Patrick J., 183 Ennell st., barber. Hodnett, Richard A., 622 Stevens st., B. & M. Hogan, James A., 36 Cosgrove st., provisions. Holden, Thomas J., 36 Prescott st., clerk. Holgate, Benjamin, 97 Grove st., accountant. Holmes, George H., 17 Shaffer st., clerk. Holmes, Percy, 837 Lakeview ave., wool sorter. Hopkins, Hary A., 190 A st., musician. Hosmer, Cecil N., 147 Andrews st., clerk, Houde, Theotime, 27 Sarah ave., clerk. Howell, Wakefield D., 69 Nicholas st., clerk. Howes, George E., 131 Varnum ave., salesman. Howes, Walter I., 22 Brookside st., stockfitter. Hoyle, Albert, 128 Mt. Hope st., plumber. Hughes, Joseph, 105 So. Highland st., grinder. Hudson, James E., 11 Hazeltine st., conductor. Hull, Frank B., 606 Stevens st., foreman. Humphrey, Arthur B., 1161 Bridge st., sales stable. Humphriss, Frederick G., 70 Smith st., oiler. Humphrey, Edson K., 43 Bellevue st., foreman. Humphriss, Herbert H., 70 Smith st., machinist. Hunt, Leonard D., 234 Cabot st., overseer. Huntington, Edward W., 69 Stevens st., clerk. Hylan, John B., 28 Nesmith st., gentleman. Hyde, Daniel, 42 Humphrey st., machinist.

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Ingham, Fred. 62 Robbins st., dealer. Inglis, John J. 52 Hampshire st., clerk. Ineson, William H., 1 Hampshire st., loom fixer. Irish, Alanson E., 137 Stackpole st., clerk. Irwin, John M., 53 St. James st., confectioner.

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Jackson, John S., 120 Gates st., clerk. Jalbert, Joseph, 100 Fourth ave., contractor. Jean, Amedee, 39 Melvin st., retired. Jennings, Joseph, 859 Lawrence st., retired. Jennings, Joseph C., 33 South Whipple st., dealer. Jensen, Otto, 23 Webber st., receiver. Jewett, Frank E., 1281 Middlesex st., dealer, Jodoin, Augustus J., 28 Campaw st., operative. Jodoin, Joseph H., Jr., 23 Claire st., machinist. Johnson, Francis, 494 Lawrence st., real estate. Johnson, Michael J., 328 Suffolk st., organist. Johnson, Curtis W., 488 Wilder st., bookkeeper. Johnson, John H., 35 Barasford ave., carpenter. Johnson, Thomas J., 183 Wilder st., clerk. Johnston, Alexander, 173 Stackpole st., baker. Johnston, William S., 173 Stackpole st., baker. Jones, Edwin F., 93 West st., decorator. Jones, Fred E., 440 Westford st., druggist.

K

Kane, Joseph P., 84 So. Highland st., clerk. Kearns, George, 192 School st., clerk. Keenan, William F., 15 Otis st., bleachery. Kelleher, John J., 7 So. Whipple st., provisions. Kelleher, Michael, 111 Agawam st., driver. Kelley, Thomas L., 44 Boylston st., Mass. mills. Kelley, Thomas F., 578 Andover st., clerk. Kelley, William A., 16 Sargent st., dealer. Kelley, William M., 32 John st., janitor. Kenefick, William, 215 Stackpole st., engineer. Kenney, Francis P., 207 West 6th st., gardener. Kennedy, James J., 24 Ash st., manager. Kennedy, Thomas H., 128 Third st., barber. Kennedy, William R., 114 Warwick st., electric light trimmer. Kernan, John Woodbury, 78 Gates st., supt. Kershaw, Samuel, 596 Bridge st., dealer. Kew, Loring R., 266 Princeton st., dealer. Keyes, Henry J., 9 Fort Hill ave., clerk. Keyes, Thomas, 694 School st., plumber.

Killerby, Frank, 26 London st., bookbinder.
Killings, William, 13 Westford st., second hand.
Killpatrick, Charles T., 27 Maryland ave., real estate.
Kimball, Clarence L., 785 Merrimack st., machinist.
King, Walter F., 205 Stackpole st., clerk.
King, Joseph D., 67 Bartlett st., lather.
King, Arthur F., 205 Stackpole st., electrician.
Kirane, John, 32 Crosby st., clerk.
Kirane, Joseph M., 28 Walnut st., leather worker.
Kirwin, John W., 919 Lawrence st., nickel plater.
Kirwn, Thomas J., 919 Lawrence st., operative.
Kittridge, Horace V., 34 Third ave., mason.
Kivlan, John H., 73 Moore st., bookkeeper.
Knapp, Fred L., 76 Florence ave., clerk.
Knowlton, Harry W., 24 Monadnock ave., draughtsman.

L

Labrie, Eugene, 772 Merrimack st., manager. Laflamme, Gerdia J., 1036 Middlesex st., clerk. Lafleur, Frederick, 1081 Middlesex st. Lafleur, Harvey A., 44 West Meadow rd., collector. Lajoie, Ovila, 722 Merrimack, dealer. Lambert, Maurice J., Jr., 342 Westford st., dealer. Lamberton, John A., 114 So. Loring st., editor. Landers, Charles J., 27 Wamesit st., printer. Landry, Edward W., 15 Gershom ave., clerk. Landry, Ernest Arthur, 17 Gershom ave., clerk. Lapoint, Bonnie E., 41 Nichols st., International. Lapointe, Martin, 41 Nichols st., harness maker. Larivee, John B., 187 Cumberland rd., conductor. Larochelle, Elzear J., 28 White st., reporter. La Rock, Joseph, Jr., 57 Marshall st., operative. Latham, Frank, 587 Stevens st., clerk. Laurin, Carl G., 40 Lundberg st., stone cutter. Lavelle, Raymond J., 282 Appleton st., advt. solicitor. Lavery, James A., 295 Appleton st., clerk. Lavallee, Henry, 75 Gershom ave., jeweler. Lavallee, Rosario, 59 Crawford, jeweler. Lawrenson, John E., 6 rear 536 Gorham st., waiter. Lavoie, Arthur, 114 Ford st., grocer.

Laycock, Joseph G., 38 Crowley st., chemist, Leadbetter, Chipman O., 28 Rutland st., deputy superintendent. Leary, Daniel, 118 Mt. Washington st., plumber. Leary, Dennis F., 339 Lincoln st., real estate dealer. Leary, Jeremiah F., 99 Pleasant st., janitor. Lecam, Joseph H., 30 Haines ave., clerk. Lebrun, Nelson J., 192 Pawtucket st., clerk. Lederman, Philip M., 55 Stevens st., dealer. Lee, John J., 147 Gershom ave., salesman. Lee, Robert J., 55 Laurel st., machinist. Lee, Michael A., 64 Bartlett st., carpenter. Leggat, Horatius B., 640 Broadway, teacher. Lemkin, Morris, 5 Hampshire st., dealer. Leveille, Arthur, 122 Mt. Washington st., clerk. Lew, Fred P., 477 Merrimack st., dver. Little, Edwin F., 56 6th ave., stock broker. Livingston, Cornelius S., 208 Branch st., paymaster. Livingston, Ephraim D., 68 Branch st., watchman. Loranger, Louis, 18 Arlington st., clerk. Loranger, Zephirin, Jr., 263 E. M st., clerk. Loezau, Napoleon M., 45 Endicott st., clerk. Lull, George E., 11 Nesmith st., merchant. Lunt, Jason, 18 Lane st., merchant. Lussier, Ferdinand, 83 Lilley ave., operative. Lussier, George H., 903 Moody st., operative. Lussier, Joseph A., 28 Grand st., machinist. Lussier, William O., 9 Bowers st., machinist. Lyle, James E., 356 E. M st., jeweler. Lynch, Thomas J., 8-33 So. Whipple st., laborer. Lynch, Patrick, 159 Walker st., barber. Lyons, Harry D., 52 Queen st., car shops. Lyons, John K., 6 Watson ave., pin maker. Lyons, Maurice T., 41 St. James st., motorman. Lyons, Richard, 48 Prospect st., foreman.

M

Mack, John F., 294 East Merrimack st., clerk. MacKenzie, Donald W., 292 Wilder st., dealer. Madden, James H., 38 Keene st., janitor. Magee, John J., 169 High st., grocer.

Magras, Joseph, 763 Moody st., clerk.

Maguire, George F., 280 High st., grocer.

Maguire, John E., 35 Mead st., janitor.

Maguire, Martin H., 106 Agawam st., U. S. C. Co.

Maguire, Philip F., 57 Sidney st., weaver.

Maguire, Patrick J., 35 Mead st., retired.

Mahan, James F., 57 Beaulieu st., slater.

Mahoney, John P., 37 Laurel st., dealer.

Mahoney, Thomas, Jr., 46 Butterfield st., clerk.

Major, Frank A., 60 Rea st., second hand.

Malorey, Frank A., 694 School st., stone mason.

Maloney, James R., 97 Pleasant st., laborer.

Maloney, John J., 195 Pleasant st., barber.

Mansfield, George F., 306 Wilder st., bookkeeper.

Mansur, Arthur F., 182 Andover st., retired.

Manseau, Vidal Z., 101 Westford st., clerk.

Marchand, Joseph P., 18 Sargent st., machinist.

Marchand, George E., 15 Harding st.

Markham, Michael J., 78 Chauncey st., dealer.

Martell, Hormidas J., 799 Moody st., supt. wire works.

Marden, Philip S., 11 Fairview st., managing editor.

Martin, Edward F., 39 Durant st., retired.

Martin, John H., 196 Mt. Pleasant st., merchant.

Martin, John F., 282 High st., clerk.

Martin, Mizael, 2-500 Moody st., tailor.

Mason, Charles, 21 Belle ave., machinist.

Masson, Lewis, 21 Belle ave., machinist.

Matte, Edmond, 930 Moody st., tinsmith.

Matthews, Nathaniel W., Jr., 2 rear 7 So. Whipple st., printer.

Maxwell, John F., 124 Hanks st., overseer.

May, Thomas, 1406 Varnum ave., gate tender.

Mayberry, Oliver W., 62 Jenness st., dealer.

Mayberry, Solomon S., 54 Jenness st., real estate.

McAleer, James E., 129 Llewellyn st., clerk.

McAloon, Fred F., 14 Pleasant st., weaver.

McAloon, John B., 112 Sixth st., weaver.

McAlvin, Henry J., 6 Favor st., teamster.

McAvoy, Thomas, 1 Fowler rd., dealer.

McCabe, William, rear 17 Queen st., teamster.

McCaffrey, John H., 186 Pleasant st., carpet weaver.

McCann, John, 71 Agawam st., wool sorter.

McCann, Patrick, 412 Lincoln st., dresser. McCarron, Anthony, 142 Concord st., grocer, McCartin, Patrick, 116 Pleasant st., conductor. McCarthy, Andrew, 656 Gorham st., advertising. McCarthy, John P., 9 Pihl st., machinist. McCarthy, John P., 744 Merrimack st., operative. McCarty, John T., 17 Westwood ave., janitor. McCarty, Patrick, 17 Westwood ave., machinist. McCarthy, Timothy F., 28 Butterfield st., clerk. McCarthy, James F., Jr., 28 Butterfield st., clerk. McCormick, John E., 108 Livingston ave., clerk. McCullough, John, 281 High st., grocer. McDonald, John J., 208 Mt. Hope st., second hand. McDonough, Edward F., 184 South st., undertaker. McElholm, William H., 465 Westford st., plumber, McElrov, George T., 157 Agawam st., painter. McElholm, James F., 53 Crowley st., electrician. McEnaney, Fred F., 187 Pleasant st., claim agent. McEvoy, Arthur M., 104 Tenth st., student. McFarlin, J. Henry, 83 Howard st., janitor. McGauvran, William H., 118 Mt. Washington st., merchant. McGenniss, James, 23 Read st., insurance. McGilly, Patrick, 75 Hoyt ave., wool sorter. McGlinchey, Michael, 84 Manchester st., grocer. McGreevy, Eugene E., 216 Foster st., clerk. McHugh, Michael F., 258 Merrimack st., clerk. McHugh, William E., 77 Fremont st., compositor. McIninch, Robert J., 39 Chestnut sq., presser. McKenna, George B., 13 Cosgrove st., undertaker. McKenzie, Collin H., 23 Methuen st., clerk. McKeon, James E., 37 Orchard st., clerk. McKenna, George T., 12 West Adams st., conductor. McKenzie, Charles T., 140 Methuen st., cartridge shop. McKenzie, Leo J., 140 Methuen st., carpenter. McKenzie, Herbert, 140 Methuen st., water dept. McMahon, Frank, 28 Willie st., clerk. McMahon, Joseph F., 452 Chelmsford st., plumber. McMahon, Joseph H., 23 Fourth ave., conductor. McMahon, William H., 30 3rd ave., steamfitter. McNabb, James S., 106 Pleasant st., laundryman.

McNabb, John H., 108 Pleasant st., laundry.

McNamee, Charles A., 48 Mt. Vernon st., chef.

McNulty, Frank B., 38 We. Fifth st., clerk.

McNulty, John F., 255 Thorndike st., hostler.

McOsker, Frank, 576 School st., waiter.

McOsker, George M., 17 Liberty st., barber.

McOsker, James F., 39 Grace st., tool maker.

McQuade, Arthur F., 11 Westchester st., fixer.

McQuade, Daniel E., 600 Andover st., dealer.

McQuade, Hugh B., 10 Pleasant st., second hand.

McQuaid, Arthur J., 197 Pleasant st., loomfixer.

McSorley, Christopher, 400 Concord st., clerk.

McSorley, John F., 332 Wentworth ave., dealer.

McVey, James M., 21 Liberty st., foreman.

McVey, William F., 24 Linden st., clerk.

Mealey, Frank L., 47 Bellevue st., copper stamps.

Meehan, Edward J., 289 Concord st., teamster.

Meehan, John P., 26 Cosgrove st., granite cutter.

Meehan, Joseph P., 196 Westford st., clerk.

Meloy, Fred'k F., 30 Fort Hill ave., contractor.

Mercier, Chester, 284 Stevens st., clerk.

Merrill, Herbert C., 157 Nesmith st., chemist.

Merritt, William H., 262 Concord st., retired.

Mevis, George B., 869 Bridge st., merchant.

Miller, Charles H., 13 Harrison st., conductor.

Miller, Malcolm, 981 Bridge st., farmer.

Minahan, James H., 74 Aiken ave., operative.

Miskell, Martin J., 292 East Merrimack st., theatrical.

Mitten, Anthony D., 43 A st., blacksmith.

Mueller, George A., 91 Willie st., clerk.

Muldoon, Owen, 259 Branch st., laborer.

Molloy, Andrew, 294 Riverside st., Lowell Water Works.

Molloy, James J., 18 Marginal st., clerk.

Monahan, Patrick R., 39 West Fifth st., teamster.

Monette, Hector, 14 Eustis ave., teamster.

Monier, Raoul H., 34 Beaulieu st., floorwalker.

Moody, Percy H., 44 Florence ave., clerk.

Moran, John, 40 Alder st., machinist.

Morrissey, Frank T., 46 Albion st., dealer.

Mosley, Harry, Jr., 24 Viola st., superintendent.

Mulcahy, M. Wilfred, 109 Rogers st., dealer.

Mullin, Frank, 14 Lundberg st., electrician.

Mullin, J. Eugene, 6 Bleachery st., insurance. Mulcahev. Thomas E., 23 Harvard st., painter. Mullanev, Michael, 4 Litchfield ter., plumber. Mullaney John J., 25 Varneif St. plumber Mulno, Harry O., 324 Boylston st., superintendent, Mullen, Leon H., 33 Bourne st., clerk. Mullen, Joseph, 23 Burtt st., merchant. Murphy, Edward Dennis, 12 Chipewa st., clerk. Murphy, Frank, 52 Central st., laborer. Murphy, James F., 35 Potter st., laborer. Murphy, John J., 25 State st., N. Y., N. H. & H. R. R. Murphy, Thomas B., 185 Moore st., B. & M. R. R. Murphy, James A., 86 Hanks st., overseer. Murray, Frank, 86 Fourth ave., blacksmith. Murray, John, 139 Chapel st., clerk. Murray, John J., 128 Hoyt ave., clerk. Murphy, Joseph F., 278 High st., printer. Murphy, Thomas F., 189 Parker st., plumber. Murphy, William J., 74 Agawam st., dealer. Myers, James W., 21 Albert st., assistant superintendent. Murphy, George E., 66 Main st.

N

Needham, Charles N., 615 Chelmsford st., carpenter. Neeson, John J., 210 Cross st., machinist.

Nelson, John A., 528 Andover st., supt.

Nestor, Patrick F., 348 Stackpole st., lamplighter.

Nichols, Henry J., 338 Varnum ave., gardener.

Noonan, John J., 219 Salem st., salesman.

Normanden, Charles, 34 Hancock ave., tailor.

Novell, Maurice H., 3-449 Moody st., barber.

Nugent, Michael, 13 L st., operative.

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Oates, William, 44 Crawford st., machinist. O'Beirne, Thomas, 704 Merrimack st., operative. O'Brien, Charles T., 162 Church st., laborer. O'Brien, Daniel J., 90 Park View ave., real estate. O'Brien, John J., 161 Pleasant st., slater. O'Brien, Joseph H., 236 Salem st., clerk. O'Connell, Luke, 64 Fay st., retired.

O'Connell, Richard A., 505 Westford st., dealer.

O'Connell, William E., 183 Stackpole st., goldsmith.

O'Connell, William T., 168 South st., clerk.

O'Connor, Edward F., 251 Moore st., grocer.

O'Connor, Frederick F., 102 Pleasant st., clerk.

O'Connor, John A., 102 Pleasant st., tanner.

O'Connor, James F., 102 Pleasant st., plasterer.

O'Connor, James H., 102 Pleasant st., foreman.

O'Connor, John J., 102 Pleasant st., tanner.

O'Connor, John J., 298 Riverside st., contractor.

O'Connor, Thomas F., 823 Lawrence st., agent.

O'Dea, Daniel, 68 Church st., dealer.

O'Dea, Gilmore, 68 Church st., chauffeur.

O'Dea, John B., 68 Church st., clerk.

O'Donnell, Martin, 85 West Union st., telephone.

O'Dwyer, Jeremiah J., 148 Midland st., conductor.

O'Grady, James Francis, 247 Gorham st., salesman.

O'Hagan, Bernard, 491 Gorham st., clerk.

O'Hagan, Michael, 29 Albion st., operative.

O'Heir, Albert E, 241 Clark Rd., dealer.

O'Hearn, Thomas B., 282 Riverside st., contractor.

O'Loughlin, William, 198 Worthen st., clerk.

O'Neil, Arthur J., 261 Concord st., clerk.

O'Neil, Daniel P., 74 Weed st., manufacturer.

O'Neill, James J., 29 Crowley st., cashier.

O'Neill, Peter, 120 Bowden st., carpenter.

O'Reilly, Timothy P., 32 High st., barber.

Orcutt, Frank A., 26 Read st., stable.

Orrell, Ernest R., 19 Hillside st., machinist.

Ortner, Simon, 114 Shaw st., dealer.

Osgood, Daniel L., 151 Cabot st., overseer.

O'Shea, Frank, 149 Concord st., clerk.

Osterhout, Fred S., 123 Westford st., commercial traveler.

O'Sullivan, Timothy F., 195 Cross st., manager.

O'Toole, John, 273 Appleton st., clerk.

P

Palmer, Forrest E., 1 Barton ave., bookkeeper. Paradis, Peter A., 526 School st., barber. Paradis, Robert C., 164 Third st., reporter. Parent, Philias, 180 Tremont st., machinist. Patenaude, Charles S., 233 Walker st., engraver. Parthenais, David A., 30 Phillips st., clerk. Patten, Henry N., 42 Florence ave., bookkeeper. Patten, William T., 235 Mammoth rd., dealer, Payette, Adelard, 20 James st., retired. Payette, Joseph, 31 Gershom ave., tailor. Payne, John, 181 Stackpole st., dealer. Pearson, George F., 24 Grace st., clerk. Pascall, Frederick, 58 Carlisle st., machinist, Perkins, Paul L., 240 Jewett st., auditor, Perkins, Stewart, 75 Howard st., barber. Perreault, Arthur C., 199 Stackpole st., tanner. Perreault, Oscar A., 18 Rose ave., clerk. Perron, Joseph. 215 Princeton st., barber. Person, Nils, 82 London st., carpenter. Phelps, John L., 1-29 Boynton st., carpenter. Phelps, Thomas J., 142 Bellevue st., foreman. Phinney, Albert Warren, 7 A st., surveyor. Phornare, Anthony, 35 Burns st., clerk. Pierce, George, 11 Pihl st., gardener. Pickering, Samuel A., 59 Hastings st., carpenter. Pickering, George L., 27 Butterfield st., carpenter. Pinkham, Arthur S., 27 Harrison st., publicity manager. Plaisted, Burton W., 110 Warwick st., clerk. Pollard, Harry G., 96 Mansur st., merchant. Power, Warren M., 73 Fletcher st., editor. Powers, John J., 125 Cross st., driver. Powers, John T., Jr., 125 Cross st., student. Preston, Charles R., 39 Elliott st., civil engineer. Primeau, John, 883 Lakeview ave., motorman. Prince, Arthur D., 5 Simpson st., merchant. Proctor, Charles S., 187 Hovey st., paper dealer. Proctor, Frank D., 248 Foster st., clerk. Putnam, Alonzo, Jr., 848 Bridge ave., salesman. Putnam, Frank H., 12 Marlborough st., dealer. Putnam, Lewis A., 19 Eighth ave., clerk. Peltier, Willis, Jr., 803 Moody st., jeweler.

Q

Queenan, Eugene C., 48 Varney st., clerk. Queenan, James J., 271 Concord st., clerk. Queenan, John H., 26 Broadway, clerk.
Quigley, John M., 62 Inland st., teamster.
Quinlan, James J., 418 Chelmsford st., conductor.
Quill, Daniel, 9 Alma st., barber.
Quinn, Daniel A., 29 Bridge st., electrician.
Quinn, Felix, Jr., 67 Bartlett st., laborer.
Quinn, James J., 37 State st., laborer.
Quinn, Michael J., 11 Eighth st., electrician.
Quinn, Timothy, 109 Sherman st., foreman.
Quirbach, Henry C., 21 Fairfax ave., eigar maker.

R

Racette, John, 527 Moody st., manufacturer. Rafferty, Michael, 320 Fletcher st., laborer. Rafferty, William, 85 Branch st., salesman. Ralls, Austin, 36 Third ave., clerk. Ranlett, Fred M., 445 Merrimack st., dealer. Ready, Francis E., 221 Hildreth st., carpenter. Ready, Patrick J., 26 Saratoga st., tanner. Ready, William B., 10 Bertha st., barber. Ready, William E., 67 Walker st., dealer. Reardon, William F., 42 Arlington st., retired. Redding, William, Jr., 82 Read st., clerk. Reed, William E., 13 Blinkhorn ave., clerk. Regan, Michael, 26 Andover st., laborer. Renaud, Louis, 26 Grand st., clerk. Riensterna, Torsten, 43 Sidney st., wool sorter. Regan, Michael J., 649 School st., motorman. Regan, Denis, 27 Windsor st., checker. Reilley, Peter W., 137 Hovey st., printer. Reynolds, Michael, 139 Chapel st., expressman. Richard, Francois Xavier, 420 Fletcher st., jeweler. Richards, Charles H., 23 Fort Hill ave., collector. Richards, Lyman H., 93 Crawford st., shoe cutter. Richburg, William H., 232 Varnum ave., shoe cutter. Righy, William H., 19 Seventh ave., superintendent. Riley, Charles P., 65 Chestnut st., smoke inspector. Riley, James F., 22 Ash st., clerk. Riley, Luke J., 101 Third st., barber. Riordan, William F., 42 Arlington st., dealer.

Rivet, Francis L., 484 Moody st., dealer. Roach, Andrew F., 22 Ash st., dealer. Roach, Patrick Francis, 85 Moore st., bookkeeper. Roark, James S., 210 Parker st., plumber. Roark, John J., 210 Parker st., clerk. Roarke, Joseph H., 412 E. Merrimack st., clerk. Robertson, Abel P., 75 Smith st., foreman. Robertson, William L., 468 Andover st., merchant. Robertson, John L., 470 Andover st., furniture dealer. Robinson, William S., 40 Crowley st., U. S. C. Co. Rochette, Louis Victor, 730 Merrimack st., student. Rochette, Ralph A., 730 Merrimack st., student. Rogers, John F., 29 Cedar st., undertaker. Romain, Isaac B., 49 Norcross st., machinist. Rooney, John J., 238 Pine st., superintendent. Rooney, James H., 238 Pine st., dentist. Rourke, John, 9 Sixth ave., janitor, Rosseau, Willie, 14 Spaulding, dealer. Rousseau, Arthur, 14 Spaulding, carpenter. Rousseau, Napoleon C., 332 East Merrimack st., clerk. Roux, J. Arthur, 19 White st., contractor, Rowe, Thomas H., 97 Varney st., clerk. Rowland, Charles T., 5 Belmont st., wholesale grocer. Roy, Joseph G., 87 Chestnut st., salesman. Royal, Garrett G., 32 Phillips st., operative. Runels, George H., 240 Gibson st., real estate. Runels, Ralph E., 4 Harland ave., dealer. Russell, John L., 17 Victoria st., manager. Ryan, Albert J., 756 Westford st., real estate. Ryan, Arnold J., 90 D st., retired. Ryan, Patrick, 46 Birch st., clerk. Ryan, Stephen J., 73 Stevens st., hatter. Robbins, George L., 20 Willow st., engineer. Rynne, Michael, 76 Elm st., clerk.

S

Sadlier, Charles P., 46 Keene st., tanner. Sadlier, George E., 46 Keene st., clerk. Sadlier, Fred A., 46 Keene st., clerk. Safford, Arthur T., 266 Andover st., engineer. Salmon, William, 3 Harts ave., laborer.

Sanderson, George, 173 Ennell st., operative.

Sanderson, George W., 137 Stackpole st., clerk.

Sargent, George A., 49 Andover st., lineman.

Sarre, Louis, 834 Westford st., dealer.

Sarre, Leon E., 842 Varnum ave., picture framing.

Saunders, Thomas A., 325 Mammoth rd., agent.

Sawyer, Mark H., 49 Pine st., engineer.

Sayers, John T., 129 Summer st., conductor.

Savard, Aime E., 311 Mammoth rd., baker.

Savard, John, 717 Middlesex st., machinist.

Scannell, William J., 62 Cambridge st., boiler maker.

Schloss, Charles C., 24 Harris ave., dealer.

Scott, John, 732 Stevens st., janitor.

Scott, William C., 257 Appleton st., machinist.

Scribner, George A., 158 Westford st., machinery dealer.

Sears, Charles, 264 Appleton st., foreman.

Sears, Fred J., 258 Merrimack st., manufacturer.

Sealey, Eldridge N., 120 High st., engineer.

Secord, Freeland, 3-49 Wilder st., D. L. Gage Co.

Senter, Arthur H., 238 Cabot st., carpenter.

Sharkey, John W., 8 Carter st., salesman.

Sharkey, Michael J., 517 School st., real estate dealer.

Shaw, James, 169 Merrimack st., clerk.

Shea, Dennis F., 94 Bridge st., clerk.

Sheehan, James A., 30 Fort Hill ave., clerk.

Sheehan, Michael J., 50 Agawam st., conductor.

Sheehy, James, 3 Pleasant st., provision clerk.

Shepard, Charles S., 100 Hanks st., steam fitter.

Sherman, Leonard F., 148 Princeton st., shoe manufacturer.

Short, Harry W., 185 Branch st., machinist.

Sicard, Jean B., 130 Avon st., dealer.

Sidebottom, John W., 649 Chelmsford st., foreman.

Silcox, Samuel, 19 Robert st., machinist.

Silver, Fred W., 94 So. Loring st., machinist.

Slattery, Charles D., 73 Pleasant st., clerk.

Slattery, Edward F., Jr., 122 Hoyt ave., real estate.

Smith, Charles P., 314 Nesmith st., real estate.

Smith, Chester F., 250 Foster st., travelling man.

Smith, Edward A., 425 Broadway st., machinist.

Smith, Henry A., 42 Mansur st., insuraance.

Smith, Henry, 37 Varnum st., barber. Smith, Omer, 78 Aiken st., janitor, Smith. Thomas M., 41 Coral st., clerk. Smithson, Angelo L., 5 Myrtle st., overseer. Somerset, Alfred J., 104 Woodward ave., clerk. Soucie, William, 511 Bridge st., salesman. Southam, Brook, 130 Westford st., overseer. Spence, George T., 236 Chelmsford st., mfgr. Stanley, Harry L., 135 Beacon st., coal dealer. Starr, George S., 144 High st., weaver. Stearns, Frank K., 122 Eleventh st., laundry. St. Hilaire, Arthur, 110 Ford st., operative. St. Hilaire, James, 15 Second ave., mason. Stone, Edward F., 60 Lawrence Corp., Race st., operative. Sturtevant, Augustus L., 32 Brookside st., clerk. Stafford, William, 787 Moody st., clerk. Stewart, Arthur A., 12 Chester st., instructor. Stickney, Charles, 599 School st., inventor. Surprenant, S. Joseph, 812 Merrimack st., dealer. Silcox, Albert E., 45 Dunfey st., machinist. Sullivan, Daniel, 105 Moore st., merchant. Sullivan, Daniel T., 223 Stackpole st., dealer. Sullivan, Dennis F., 31 E. Pine st., salesman. Sullivan, Eugene, 55 Bartlett st., tailor. Sullivan, Eugene P., 84 Maple st., primer. Sullivan, George S., 33 Butterfield st., clerk. Sullivan, James E., 785 Broadway, dealer. Sullivan, John E., 58 Corbett st., B. & M. R. R. Sullivan, John J., Jr., 114 Beach st., agent. Sullivan, Michael J., 57 Hampstead, grocer. Sullivan, Richard H., 8 Batchelder pl., teamster. Sullivan, Thomas, A. D., 28 Grove st., dealer. Sullivan, William H., 724 Bridge st., fish dealer. Sullivan, William J., 17 Bowers st., plumber. Sykes, Richard, 17 Rockingham st., overseer.

T

Taylor, Harold S., 672 School st., clerk. Tansey, John F., 322 East Merrimack st., choachman. Taylor, Samuel A., 12 Chase ave., watchman. Tellier, Alderic, 236 White st., clerk.

Thibeault, Archie, 20 Melton st., clerk. Thomas, George A., 118 Branch st., boilermaker. Thomas, John, 45 Tolman ave., teamster. Thomas, Robert R., 24 Loring st., electrician. Thompson, James A., 68 Grove st., box manufacturer. Thompson, Martin B., 242 Cabot st., overseer. Thompson, Samuel H., 121 School st., hardware. Thorpe, James, 100 Riverside st., treasurer Glass Co. Tobin, Richard, 521 Dutton st., machinist. Toomey, Eugene F., 170 Lawrence st., clerk. Tracy, James H., 147 Concord st., laborer. Tremblay, Onesime, 15 James st., operative. Trepanier, J. Edmond, 11 Willie ave., piper. Trottier, William, 30 Hampshire st., journalist, Trull, George T., 752 Andover st., student, Turcotte, Arthur L., 553 Fletcher st., clerk. Turcotte, Louis P., 553 Fletcher st., dealer. Turcotte, Oswald, 33 Ellis et., baker. Tully, John J., 533 Lawrence st., clerk. Tuttle, Clinton P., 17 Wedge st., clerk. Tuttle, Joseph T., 3 Dane ave., clerk. Turgeon, Philippe, 50 Chestnut st., machinist. Twohey, Edward, 14 Madison st., contractor. Tyler, William H., 30 Epping st., gardener.

V

Vandenberg, William C., 386 Andover st., insurance. Van Hise, Albert, 46 Bellevue st., pattern maker. Viney, William B., 22 Tyler st., clerk. Voisard, Hector, 99 White st., clerk. Vaughan, John H., 14 Leverett st., boiler maker.

W

Wadleigh, Jude C., 305 Andover st., mill agent. Walker, George H., 153 Winthrop ave., clerk. Walker, Hugh G., 18 Pihl st., clerk. Walker, Thomas C., 80 Chestnut st., druggist. Walker, William H., 125 D st., loomfixer. Walmsley, John, 666 School st., clerk. Warnock, Francis A., 13 Wamesit st., plasterer. Watson, Henry L., 84 Rolfe st., printer.

Watson, Peter, 84 Rolfe st., printer. Welch, Benjamin F., 160 Shaw st., foreman. Welch, Richard J., 543 Andover st., plumber, Welch, John F., 70 Livingston ave., plumber. Welch, Martin F., 64 Pleasant st., tanner. Welch, Frederick F., 30 Riverside st., cabinet maker. Wells, Arthur M., 11 Harding st., watchman. Westall, William E., 63 Dover st., merchant. Weston, Charles F., 32 Colonial ave., belt maker. Westwood, John S., 40 Smith st., druggist. White, Frank P.: 940 Central st., tanner. White, James A., 154 A st., agent. White, John A., 70 Smith st., B. & M. White, John F., 75 Boynton st., clerk. White, William T., 86 Belmont ave., manufacturer of leather. Whiteley, Wright, 98 Andrews st., dealer: Whitney, Walter, 8 Livermore st., machinist. Whittier, Stephen T., 55 Fairmount st., paymaster. Wilde, Thomas E., 41 Forest st., manager. Wilder, William F., 20 Huntington st., plumber. Willman, Clarence T., 13 Oliver st., spinner. Wing, Charles H., 577 School st., merchant. Winn, John J., 29 So. Whipple st., mattress maker. Wood, James, 181 E. Merrimack st., barber. Woods, Joseph W., 76 Campaw st., conductor. Woodcock, William, 83 Howard st., second hand. Worsnip, Robert S., 850 Lakeview ave., spinner. Wyman, Alonzo H., 60 Fort Hill ave., machinist. Wyman, Stephen T., 185 Stackpole st., city library.

Y

Young, Charles F., 627 Central st., decorator. Young, William, 400 Lakeview ave., piper.

Z

Ziskind, David, 75 Gates st., dealer.

Election Commission.

HUGH C. McOSKER, JOSEPH H. MAGUIRE, THOMAS H. BRADEN, J. OMER ALLARD,

Clerk.

ANNUAL REPORT

OF THE

POLICE DEPARTMENT

OF THE

CITY OF LOWELL MASSACHUSETTS



1920



ANNUAL REPORT

OFFICE OF THE SUPERINTENDENT OF POLICE,
Lowell, Mass., March 23, 1921.

Hon. Perry D. Thompson,

Mayor and Commissioner of Public Safety,

Lowell, Massachusetts.

DEAR SIR:

I most respectfully present to you a report of the work performed by the police department for the fiscal year ending December 31, 1920.

Respectfully yours,

REDMOND WELCH,

Superintendent of Police.

The organization of the police department for the year ending December 31, 1920, was as follows:

Superintendent, Deputy Superintendent, two Captains, one Inspector, six Lieutenants, seven Sergeants, two Police Women, one hundred twenty-eight Regular Officers, twenty-seven Reserve Officers, one Electrician, one Lineman, four Chauffeurs, one Matron, one Stenographer, one Operator, and one Charman. Population, estimated, 125,000. Area, 14.1 square miles. Accepted streets, 144.08 miles. Unaccepted streets, 73 miles. Appropriation for year, \$285,198.45.

Patrolman Arthur Drewett resigned March 11, 1920.

Chauffeur Carl Noyes was retired on pension September 15, 1920 and died January 9, 1921.

STATISTICAL REPORT

OF THE

Lowell Police Department

January 1, 1920, to December 31, 1920

RECORD OF ARRESTS, 1920

AGAINST PUBLIC ORDER

OFFENCE	Jan.	.Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Abandoning Infant				2									2
Adultery	4	4 2	3	3 7	$\frac{2}{17}$	$\begin{vmatrix} 1\\36 \end{vmatrix}$	37	25	19	30	18	12	17 207
Auto Law, Violation Bastardy	7 7	1	4	ĺί	2	5	2	3		30	2	1	207
Canias		2	2	1 5	9	4	7	11	1 7	5	4	8	71
Carrying Weapons	1	2			5 9	7	2	$\begin{vmatrix} 1\\2 \end{vmatrix}$	5	3	$\frac{2}{1}$	1	20
City Ordinance, Violating Cruelty to Animals	1		3	1.	9	1	14	Z	5	3	1		41
Common Brawler Deserter from U. S. Army					1				1				1
Deserter from U. S. Army	1	3	2	3		4	1	7	1	1	2	2	21
Delinquents	3	4		11	$\frac{6}{2}$	14	7 6	2	10	18 2	13 2	3	96 16
Dog Keeping, Unircensed			,		4		1	_		1	_	1	7
Drunkenness Escaped from Prison	83	34	39	91	122	101	137	230	180	185	143	167	1512
Escaped from Prison	6	2			2			1	1	5	1	3	21
Failing to Keep Matches in Metal Box						1							1
		2	1	5	2	3	2	2					17
Forgery	1								١.		١.	2	3
Hunting Law vio of		١.,			2				1	3	1		7
Idle and Disorderly							l	1		2			3
Impersonating an Officer									1	ì			_ 1
Fornery Gambling Hunting Law, vio. of Idle and Disorderly Impersonating an Officer Incest Indecent Exposure	2			1				1	3	2	1	1	1 11
Insane	1	2		1	. 1	1	1	1	0	2	1	1	9
Insane		_					1			~	-		
Premises			2			3				ŀ			5
Level Cohebitation	2	2	4	2	2	2	2	3	$\frac{1}{3}$	3		6	$\begin{array}{c c} 1\\ 31 \end{array}$
Lewd Cohabitation Labor Law, vio. of	-	-	1	-	-	-	"	"	١	١		5	6
Lewdness Liquor Law, vio. of Mann Act, vio. of Maintaining Gaming Resort			1 3			1		1	4	3		4	16
Liquor Law, vio. of	2	6	5	8	9		'		17	12	14	20	93
Maintaining Gaming Resort	1	1		1					1				3
Milk Law, vio. of	1			î									1
Maintaining Gaming Resort Milk Law, vio. of Neglected Children		1	4		6	11	1			1.0	3	1.0	26
Neglect of Family Permitting Minor to Loiter in	10	8	12	9	2	8	16	11	18	19	10	13	136
Bowling Alley		2											2
Polygamy								ĺ	2	2			4
Possession of Counterfeit					1							}	1
Money				1	1		Į.				1		î
Playing Game on Lord's Day. Present at Game on Lord's Day					4	4			3				11
Present at Game on Lord's Day	26		9	18		5		15	1	9	2	1	86
Present Where Gaming Implements were Found	4	8	14		30			5	1	82	25		169
Practising Medicine, Unlicensed											2	1	3
Profanity				-		$\frac{1}{2}$	1	١,		1		$\frac{1}{2}$	4 6
Promoting Lottery Pure Food Law, vio. of	1			1		4		$\frac{1}{2}$		1	11	4	19
Riding a Freight, Unlawfully.	1		4										4
Safe Keeping	9	5	16	1	16	22	10	14	14	7	8	5	127
School Law vio of	1	1									1		$\frac{1}{3}$
Sodomy	1	١,			1								1
Stubbornness	3	1	5	1	2	3	2	5	5	2	3	2	34
Sale of Stove Polish Contain-						2							2
Conducting Business Under an		,				-							-
ing Naphtha Conducting Business Under an Assumed Name								1					_1
Suspicious Person Travelling Without Sleigh Bells	4	6	1	8	9	9	2	6	10	8	2	- 8	71 10
Treason	1	9	1										10
Truants	•		1		3					2	1		.8
Vagrants	1	1				2		1.0	-	1 2		2	8 57
voistead Act, vio. of		_			1	11	5	12	7	2	2		57
	182	110	139	179	282	264	259	365	320	418	275	282	3075
			l i	1									

AGAINST THE PERSON

OFFENCE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oet.	Nov.	Dec.	Total
Assault Battery Assault with Dangerous Weapon Assault, Felonious Assault on an Officer Blackmail Manslaughter Rape Robbery Threats	4 1 1	9 1 1	6 1 1 1	.1	8 5 2 6 1	11 2 1	19 1 1 3 1	1 1 1 3	1 25 2 2	19 3 2 4 1	12 1 2 1	17 2	9 158 4 7 13 3 9 2 10 13
	7	11	9	15	23	14	26	25	32	29	16	21	228

AGAINST THE PROPERTY

OFFENCE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oet.	Nov.	Dec.	Total
Attempt, Larceny Attempt, Breaking and Entering Breaking and Entering Concealing Stolen Goods Evading Car Fare Larceny Malicious Injury to Property Malicious Injury to Property Malicious Injury to Property Malicious Injury to Property Malicious Freight Sale of Mortgaged Property Suspicion of Larceny Taking a Team Trespass	8 11 1 1	5 10 2 	2 18	5 16. 1 6 28	3 15 1	1 11 13 1 1	9 22 1 1 32	2 13 11 2 1 5 30	6 16 2 3 1	4 1 32 1 1 3 4	1 6 3 23 1 1 1 1	2 8 4 24 3 2	4 2 78 1 9 211 8 13 1 5 2 4 13 353

DISTRIBUTION OF OFFENCES ACCORDING TO NATIONALITY

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oet.	Nov.	Dee.	Total
United States England Ireland Scotland British Provinces Greece Russia Turkish Empire Poles Lithuanians Armenians Miscellaneous	82 340 1 34 31 6 2 3	82. 25. 1 21. 11. 3 3. 2	9 .1 23 10 3 1 8		15 1 1 24	1 40 9 10 1 11 6 23	169 7 33 3 46 15 3 7 14 3 2 15	5 66 1 52 15 8 8 33 23 4	10 33 4 47 20 7 11 13 3 7	1 43 94 4 1 19 1 3 24	32 44 29 9 5 11 1 2 15	2 47 14 8 1 22 4 1 23	1951 74 392 19 457 269 47 151 42 21 164
Total	210	138	168	222	324	305	317	420	385	493	327	347	3656

DISTRIBUTION OF OFFENCES ACCORDING TO TRADES AND PROFESSIONS

	Jan.	Mar.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Building Trades Mechanical Trades Mill and Factory Shops and Stores Professional Agricultural Clothing and Garb Agents, etc. Laborers Service, Domestic Transportation Children Soldiers Sailors Miscellaneous None	10 21 51 25 1 2 4 51 10 13 14 8	9 7 24 23 1 1 48 6 5 11 .1	6. 7 39 19 2 45 10 10 10 10 4	12 10 45 29 3 62 12 21 15 5	29	19 22 53 40 2 4 7 65 12 27 31 7	66 37 6 10	33 95 37 4 8 1 2	55 3 5 4 91 25 19	55 2 7 1 4 127	56 56 4 7 84 11 16	74 44 2 3 9 94 20 20	781 463 24 57 4 47 981 160
Total	210	138	1 6 8	222	324	305	317	120	385	493	327	347	3656

DIVISIONAL REPORT

OF THE

Lowell Police Department

January 1, 1920, to December 31, 1920

MONTHLY REPORT OF FATROLMEN, 1920

	Jan.	Feb.	March	April	May	Junc	dnf.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
													Ī
Persons Assisted Home Drunk.	4	#		· 52	61	9	4	10	9	11	7	14	73
Persons Arrested	08	51	54	82	83	84	128	193	153	178	113	165	1359
Secured Secured Streets and Side-	108	96	84	108	96	99	7.7	80	80	7.2	94	65	1026
walks	1	G1 G	00 F	12	1	66	14	10	15	11	7	r-0	123
Lost Children Restored	1	410	+ - - - - - - - - - -	∞	- 67	19	1-	-1-	П	4	4	ကယ	55
covered covering Gas Lights Not Burning	\$49.50	\$16.35	457	\$32.20	\$48.84	19	\$29.00	\$20.00	\$405.00	\$379.44	\$290.70	\$241.50	\$1512.53
Electric Lights Not Burning . Teams Put IIn and Cared For		464	3333	231	145	242	279	251	256	191	151	265	3253
Obstructions Not Lighted		0 00 W	100	440	н	61	2 00 H	1-0	00 7	9	0	-	36
Disturbance Quelled	4.5	01-	0 9	15	19	13	91.	24	34	10,	15	25	3.00 2.30 2.30 3.00 3.00 3.00 3.00 3.00
Violated Liquor Law	61					ų.				- 67	co		11

MONTHLY REPORT OF LOCKUP, 1920

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Money Taken From and Returned to Prisoners Defective Streets and Side-	\$1165.98	\$456.91	\$1165.98 \$456.91 \$1180.08 \$2027.36 \$1576.57 \$1595.23 \$1548.02 \$3584.53 \$2468.05 \$2767.13 \$2081.61 \$3414	\$2027.36	\$1576.57	\$1595.23	\$1548.02	\$3584.53	\$2468.05	\$2767.13	\$2081.61	83414.18	\$23865.65
walks Obstruction Removed from				18	13	6	13	12	1	1.0	10	7	66
Streets Stores Found Unlocked Lost Children Returned to	106	06	81	111	116	7.9	80	99	82	93	66	7.5	1086
Parents Stray Teams Found and Put		П		1		61		г	1			1	7
Up	-	1		1		¢1	п	г			67		6

MONTHLY REPORT OF POLICE MATRON OF ARRESTS OF WOMEN, 1920

	Jan.	Feb,	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Abandoning Child Adultery Assault and Battery Freaking and Entering Capias Churkenness Disturbing the Peace Escaped Prisoner Fromfeation Insane Fraceny Laveny Laveny Lewd Cobabitation National Prohibition Law, vio. Lewdness Edwdness Edwdness Edwdness Edwdness Edwdness Edwdness Edwdness	e1 ec	21 1 1111	н 44 од н	011 6 8 11	- « r	о ин а нн	& & & &	1 7 7 7 7	27 H 24 25 E 25 E	H F 4 00 FF	L 1- 4	, 91 4 H ⊕∞ ∞	87.82.82.82.78.78.78.78
Profane Language		_	1		П	1 2	က	61 63	ro ro	- 67 67		1	17
Total	7	6	15	18	11	18	18	61	34	21	16	20	210
Minors	1	1	4	1	67	63	က	7	10	4	œ	oo.	51
Money Taken and Keturned to Prisoners,	\$19.65		\$252.24	\$78.25	\$3.16	\$25.13	\$21.64	\$14.53	\$34.99	\$31.08	\$53.42	\$53.42	\$587.51

REPORT OF CRIMINAL BUREAU OF INVESTIGATION FOR 1920

MONTHS	Arrests	Lost and Stolen	Recovere 1	Still Missing	Autos Stolen	Recovered
January	27	\$ 780	\$ 690	\$ 90		,
February	30	672	520	152		,
March	31	824	710	114		
April	29	724	610	114	1	1
May	26	520	480	40		
June	22	630	500	130	1	
July	19	755	705	50		
August	26	540	410	130	1	1 1
September	27	720	650	70	1 3	1
October	34	570	480	90	3	
November	29	720	550	170	6	$\frac{2}{2}$
December	33	810	740	70	3	2
Total	323	\$8,265	\$7,045	\$1,220	18	7

RECOVERED FOR OTHER CITIES

Woonsocket, R. I	\$ 80.00	Fitchburg, Mass	162.00
Manchester, N. H	80.00	Nashua, N. H.	25.00
Boston, Mass	500.00	Camp Devens	500.00
Malden, Mass	2,700.00	Burlington, Vt	400.00
Lynn, Mass	1,200.00		
Amesbury, Mass	300.00	Total	\$8,047.00

PRISONERS ARRESTED FOR OTHER CITIES AND TOWNS

Lawrence, Mass	1	Worcester, Mass	2
Boston, Mass	4	Winchendon, Mass	1
Palmer, Mass	1	Fall River, Mass	1
Everett, Mass	2	Northampton, Mass	1
Lynn, Mass	2	Fitchburg, Mass	1
Haverhill, Mass	2	Woburn, Mass	1
Reading, Mass	1	Woonsocket, R. I	1
Amesbury, Mass	2	Augusta, Me	1
Cambridge, Mass	2	Windsor, Vt	1
Taunton, Mass	1	Burlington, Vt	1
Somerville, Mass	1	Baltimore, Md	1
Pittsfield, Mass	1	Federal Government	2
Marlhoro Mass	1		

Respectfully submitted,

JAMES BROSNAN,

Capt. of Police, Lowell, Mass.

POLICE SIGNAL SYSTEM, 1920

MONTHS	Duty Calls	Telephone	Wagon	Prisoners	Miles
January	39,586	3,728	93	128	111
February	36,205	3,362	52	59	71
March	39,105	3,485	. 66	94	92
April	38,040	3,428	97	131	112
May	36,897	3,650	130	178	156
June	36,055	3,600	108	131	127
July	37,712	3,543	135	157	163
August	36,784	3,482	199	248	249
September	36,209	3,391	171	198	205
October	36,439	3,516	193	298	241
November	36,496	3,447	129	173	162
December	38,353	3,738	164	200	203
Totals	447,881	42,370	1,537	1,995	1,892

















